

# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, JANUARY 2, 1864.

[No. 179.]

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending January 2nd, 1,474 new cases of disease occurred in connection with the Public Institutions of Manchester and Salford: in the preceding week the number was 1,362, and in the corresponding one of last year 1,422.

55 persons experienced attacks of Continued Fever, of which 12 unfortunately turned out to be cases of Typhus. All the latter occurred in the Manchester Township; 3 in the St. George's District, 2 in St. Peters, 2 in St. Michael's, and the remainder among the patients of the Royal Infirmary.

Scarlet Fever was less prevalent than in the preceding week, the respective numbers being 44 and 39; no less than 10 cases of this disease were met with among the patients of the Salford Dispensary.

Of the other zymotic diseases, Whooping Cough has for some weeks been becoming more prevalent, 21 seizures being recorded in the present return.

There were 305 cases of Bronchitis. It must be borne in mind, however, that, on Saturday, the 2nd instant, the intensely cold weather of the present week had not yet set in.

No other disease occurred to any excessive extent.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

390 deaths and 351 births were last week registered in the eleven districts. Of the former 75 were cases on which it was deemed proper to hold a coroner's inquest; and, as a list of these deaths is only forwarded to the registrars at the end of the quarter, it is presumable that but a small number of them occurred in the course of the week. Thus the actual mortality probably did not exceed 320. In the preceding week the number was 328, and in the corresponding one of last year 306.

In London, according to the last return of the Registrar General, the deaths exceeded the average rate of mortality for the season by 84.

It is satisfactory to observe that the number of fatal cases of Scarlet Fever decreased from 42, in the week ending December 26th, to 32 in the course of last week. Of this number no less than 13 were returned from Hulme. We have repeatedly directed attention both to the prevalence and severity of the disease in this district.

At Greenwich Observatory the mean temperature of the air in the week was  $37.1^{\circ}$ , at Old Trafford it was  $36.6^{\circ}$ , or half a degree less.

Very little rain was measured either at the Manchester stations or at Greenwich.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



MANCHESTER AND SALFO

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INS  
New Cases of Disease coming under Treatment Di

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	City Gaol.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	1	1	..	..	2	..	4	1	1	..	..	..	1	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	..
Scarlatina .....	..	2	3	1	3	1	10	2	..	..	..	3	1	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	2	..	..	1	..	..	3	1	..	..	..	..	..	8	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	3	..	..	3	1	7	4	..	10	..	..	1	2	2	1
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Continued Fever.....	*5	1	+7	..	..	*4	17	11	6	..	*2	§1	*4	4	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..
Rheumatism .....	3	3	3	1	4	1	15	5	..	18	..	1	3	..	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	6	..	..	..	..	1	..
Constitutional Syphilis .....	..	2	..	1	..	..	3	15	..	7	..	..	..	1	1	1
Phthisis .....	1	1	..	..	2	1	5	2	..	32	..	2	4	..	2	..
Insanity .....	1	..	..	..	..	1	2	7	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	7	27	7	3	10	13	67	16	.	67	2	5	4	9	8	..
Pleurisy and Pneumonia....	..	..	2	..	4	..	6	1	..	..	..	2	..	..	1	..
Skin Diseases.....	..	..	..	2	..	..	2	14	..	15	..	..	..	5	3	1
Dyspepsia .....	1	1	..	..	..	..	2	..	1	19	2	1	..	1	3	2
Accidents and diseases not } classified..... }	34	24	10	6	11	23	108	21	29	247	12	9	4	32	3	2
TOTAL .....	55	65	32	15	40	46	253	100	37	423	18	24	22	65	26	7

\* 2 Typhus.

+ 3 Typhus.

‡ Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

(4) „ J. LORIMER,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. C. H. BRADDON,

(8) „ M. ROWLAND DAY,
- (9) } Mr. S. M. BRADLEY,

(10) } „ G. E. WALKER,

(11) } „ T. M. JOHNSON,

(12) }
- (13) Mr. H. RUNCORN,

(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAND,

(16) „ J. TEALE,



SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS.  
the Week ending the 2nd day of January, 1864.

SALFORD.					HULME.			CHORLTON.	ARDWICK	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477. ....			.. 646. ...	508.	..... 2650.....						
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's									
16	17	18	19	20	21	22	23	24	25	26	27	28				
..	..	..	1	..	1	..	..	..	..	..	..	1	11	14	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox .....	..
..	..	..	..	..	..	..	..	..	..	2	..	..	4	26	Measles .....	..
..	..	..	10	..	1	2	1	1	7	..	..	..	39	4	Scarlatina .....	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	1
..	..	..	1	..	3	..	..	..	2	1	..	..	21	8	Whooping-cough ....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..
..	..	..	..	2	..	1	..	..	2	..	..	..	32	30	Diarrhoea .....	..
..	..	..	1	..	..	..	..	1	..	..	..	..	3	2	Dysentery .....	..
..	..	1	4	..	..	..	..	..	..	1	..	4	55	47	Continued Fever ....	4
..	..	..	1	..	..	1	..	..	2	..	..	..	6	6	Erysipelas .....	..
..	2	..	6	1	1	8	3	1	6	..	2	..	72	62	Rheumatism .....	..
..	..	..	2	..	..	..	..	..	1	..	..	..	10	27	Neuralgic Affections ..	..
..	1	1	2	..	..	..	..	..	..	1	..	1	34	52	Constitutional Syphilis	..
..	..	..	2	..	..	..	..	1	1	..	2	..	53	32	Phthisis .....	9
..	1	..	..	..	..	..	..	..	..	..	..	4	14	3	Insanity .....	1
7	10	5	25	7	9	11	14	11	14	5	8	1	305	262	Bronchitis, Influenza, and Catarrh.....	15
..	1	..	..	..	..	..	..	..	2	3	1	..	17	10	Pleurisy & Pneumonia.	2
..	1	2	4	..	3	..	..	..	4	1	..	11	66	77	Skin Disease.....	..
2	..	..	16	..	2	2	2	3	3	4	2	..	67	65	Dyspepsia .....	..
4	14	4	49	2	4	5	4	2	34	6	31	39	665	694	Accidents and diseases not classified.....	20
13	30	13	124	12	24	30	24	20	78	24	46	61	1474	1422	TOTAL.....	62

s indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON,  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L.WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ W. H. HUGHES.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	1	..	..	1	..	..	..	..	..	..	1	..
Measles .....	..	1	..	..	1	..	..	..	..	..	..	1	15
Whooping-cough.....	1	1	1	..	1	1	1	..	..	..	1	9	7
Scarlatina.....	6	2	..	3	2	1	2	..	1	13	2	32	8
Diarrhoea .....	..	1	..	..	..	1	1	..	..	..	..	3	10
Fever .....	..	1	3	2	..	..	1	..	1	..	..	8	10
Diseases of the Lungs ..	19	11	2	12	..	8	5	..	7	13	3	80	63
Other causes.....	a39	9	55	15	b32	c9	14	8	d17	e38	f20	256	193
TOTAL NO. OF DEATHS.	65	26	61	32	36	20	24	8	26	66	26	390	306
TOTAL NO. OF BIRTHS.	43	42	24	25	18	33	22	18	23	81	22	351	312

a 23 Inquests.    b 14 Inquests.    c 1 Inquest.    d 8 Inquests.    e 23 Inquests.    f 6 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th Sept.	5 Weeks ending 31st October.	4 Weeks ending 28th Nov.	TOTAL.	DISEASE.	4 Weeks ending 26th Sept.	5 Weeks ending 31 st October.	4 Weeks ending 28th Nov.	TOTAL
63	81	32	176	.....Small-pox.....	54	64	46	164
8	11	19	38	..... Chicken-pox .....	6	5	13	24
24	46	33	103	..... Measles .....	37	44	43	124
115	141	94	350	.....Scarlatina.....	237	370	217	824
5	4	10	19	..... Diphtheria .....	2	7	2	11
28	56	43	127	.... Whooping-cough ....	73	86	68	227
1	4	2	7	.....Croup.....	3	..	2	5
1298	828	384	2510	.....Diarrhoea .....	452	336	232	1020
2	..	..	2	.....Dysentery.....	38	31	20	89
..	..	1	1	..... Cholera .....	..	..	..	..
26	18	32	76	.....Erysipelas.....	52	94	54	200
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
10	16	11	37	..... Insanity .....	25	41	31	97
466	784	770	2020	..Bronchitis and Catarrh..	724	1161	1126	3011
8	17	11	36	..... Pleurisy .....	62	78	4	187
13	32	17	62	..... Pneumonia .....	..	..	..	..
9	2	2	13	.....Carbuncle.....	..	..	..	..
3470	5063	3563	12096	{ Accidents, and all other Diseases. }	4548	5780	4674	15002
5546	7103	5024	17673	..... TOTAL .....	6313	8097	6575	20985

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER :				Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T.MACKERRETH Esq.	Royton, J. HEAR, Esq.	Bowdon, L.W. Reynolds Esq.
Inches.		Wet Days.							
Royton .....	3.775	.....	21						
Old Trafford....	3.064	.....	21						
Eccles.....	2.775	.....	24						
Bowdon .....	2.416	.....	22						
Thelwall .....	2.335	.....	16						
Height of barometer cistern above sea level....				130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level ....				30.087	30.134	30.173	30.124	30.086	30.113
Highest.....				30.424	30.522	30.532	30.470	30.002	30.384
Lowest .....				29.700	29.724	29.724	29.656	29.198	29.597
Range .....				0.722	0.798	0.808	0.814	0.804	0.787
<b>Temperature.</b>									
Adopted Mean .....				41.0	36.6	36.0	36.4	36.0	36.7
Range for Week .....				19.6	19.9	23.5	22.9	22.3	21.7
Daily Range.....				13.7	9.3	8.0	10.0	11.4	9.0
Maximum in Shade .....				51.2	47.1	48.8	48.5	47.4	48.1
Minimum in Shade .....				31.6	27.2	25.3	25.6	25.1	26.4
Temperature of Dew Point .....				35.6	34.2	33.2	31.7	33.0	32.6
<b>Hygrometrical condition of the Atmosphere.</b>									
Degree of Humidity (Saturation—1,000) ....				GRS. 0.734	GRS. 0.916	GRS. 0.883	GRS. 0.837	GRS. 0.876	GRS. 0.854
Prevailing Winds .....					SW,SE	SE,E	SE,E	SE,E	SE.E
Rain .....					0.164	0.140	0.187	0.300	0.244

January 6, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.





# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, JANUARY 9, 1864.

[No. 180.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

Last week 1,736 new cases of disease occurred in connection with the various Public Institutions: in the preceding week the number was 1,474, and in the corresponding one of last year 1,563.

Under Bronchitis, as might reasonably be anticipated from the extreme severity of the weather, we find an increase of 86 cases. It is probable, however, that a still greater number of seizures from this disorder will be reported in our next return as, on looking back to former visitations of cold weather, we find that some little time has usually elapsed before the extent to which it proves the exciting cause of disease is rendered apparent.

The number of new cases of Scarlatina (39) exactly corresponded with that of the preceding week.

There was a decrease of 17 under Continued Fever, of which 3 proved cases of Typhus and 2 of Typhoid. In the week ending January 2nd, no fewer than 12 persons fell victims to the former disease.

Under Rheumatism, including Rheumatic Fever, we observe an increase of 30 cases, doubtless induced by the low temperature of the air. From the same cause, also, the seizures from Neuralgia, which in the former week amounted to only 10, last week contributed 32 cases.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 318 deaths were registered in the 11 districts: in the preceding week the estimated number was 320, but in the corresponding one of last year only 220.

No fewer than 27 more persons died of diseases connected with the chest than in the week which went before, and 50 more than in the corresponding one of last year. These deaths may probably be directly ascribed to the late frost.

40 persons died of Scarlet Fever, or 8 more than were recorded in our preceding return. Thus the change in the weather does not appear to have diminished the fatality of this disorder.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was  $26.7^{\circ}$ , at Old Trafford  $24.3^{\circ}$ . The lowest reading of the thermometer at any of the stations from which we are favoured with returns was observed at Bowdon,—it was  $11.9^{\circ}$ ; at Old Trafford and Eccles  $12.0^{\circ}$ ; at Thelwall  $12.2^{\circ}$ ; and at Royton  $12.8^{\circ}$ , so slight were the variations in the intensity of the frost at the different outlying stations; at the Royal Infirmary, however, the thermometer never fell below  $25.6^{\circ}$ . We would direct especial attention to this fact, as it will be found on looking back to the Meteorological Reports of the Sanitary Association that, in proportion as the reading of the thermometer at the stations outside the town of Manchester is lower, so is the range wider between those observations and those taken in the centre of the city, at the Infirmary.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS New Cases of Disease coming under Treatment During the Year 1861

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	1	..	..	..	..	1	..	..	..	..	..	..	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	1	..	..	2	1	4	..	..	..	..	..	..	..	..	..
Scarlatina .....	2	3	1	..	..	1	7	2	1	..	..	1	2	4	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	3	1	2	6	2	..	..	..	..	..	1	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	..	1	1	4	1	8	..	..	13	..	..	..	1	..	..
Dysentery .....	..	1	..	..	..	..	1	..	..	3	..	..	..	..	..	..
Continued Fever.....	*1	*2	1	†2	1	5	12	8	3	..	1	†2	..	2	..	..
Erysipelas .....	..	..	..	..	1	..	1	1	..	20	..	..	1	..	..	..
Rheumatism .....	4	16	1	2	7	2	32	7	..	31	1	..	2	..	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	23	..	..	1	..	1	..
Constitutional Syphilis .....	..	..	1	..	..	..	1	13	..	21	..	..	..	1	2	..
Phthisis .....	..	2	..	3	4	1	10	3	..	13	1	3	3	3	1	..
Insanity .....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..	2
Bronchitis, Influenza & Catarrh	13	44	14	15	9	24	119	18	..	21	..	7	5	3	4	..
Pleurisy and Pneumonia....	1	..	1	..	2	1	5	..	..	..	2	1	2	..	..	..
Skin Diseases.....	..	2	..	2	..	1	5	9	..	25	..	..	..	2	2	..
Dyspepsia .....	..	2	..	..	3	..	5	..	1	31	1	..	..	3	1	2
Accidents and diseases not classified.....	46	21	21	16	7	23	134	35	25	221	11	7	9	43	2	6
TOTAL .....	68	95	41	44	41	63	352	101	30	422	17	21	25	64	14	10

\* 1 Febricula

+ Typhus.

† 1 Typhus and 1 Typhoid.

### Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
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(12) }

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(14) Dr. WHITEHEAD,  
(15) Mr. W. GOLLAND,  
(16) „ J. TEALE,



SANITARY ASSOCIATION.

TIONS OF MANCHESTER AND ADJOINING DISTRICTS.

the Week ending the 9th day of January, 1864.

SALFORD.					HULME.			CHORL- TON.	ARD- WICK	PENDLETON AND PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.	
..... 1,329 .....					..... 477 .....			... 646 ...	508.	..... 2650 .....			..... 24,448 .....			
..... 70,967. ....					... 68,209. ...			.. 44,850 ..	21739							
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work- house.	Total.	Corresponding Week last Year.	DISEASES.	
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's									
16	17	18	19	20	21	22	23	24	25	26	27	28				
1	1	..	..	..	..	..	..	1	1	..	..	..	6	17	Small-pox .....	..
..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	Chicken-pox .....	..
..	..	..	1	..	..	..	..	..	1	..	..	7	13	26	Measles .....	1
..	..	1	7	..	1	..	2	2	5	2	2	..	39	9	Scarlatina .....	5
..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	Diphtheria .....	1
..	..	..	2	..	..	..	..	..	1	1	..	..	14	15	Whooping-cough ....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
..	1	..	..	2	2	1	1	1	..	1	..	..	31	38	Diarrhoea .....	1
..	1	..	..	..	..	..	..	1	..	1	..	..	7	8	Dysentery .....	..
..	..	..	1	1	..	..	2	1	1	2	1	1	38	42	Continued Fever ....	2
..	..	..	..	..	..	..	..	..	1	..	..	..	24	12	Erysipelas .....	..
4	..	..	7	..	1	3	4	3	4	..	3	..	102	93	Rheumatism .....	..
1	1	..	2	..	..	..	..	..	2	1	..	..	32	21	Neuralgic Affections ..	..
..	..	..	2	..	..	..	..	..	1	..	..	2	43	42	Constitutional Syphilis	2
1	..	3	8	..	1	..	..	2	1	..	1	..	54	41	Phthisis .....	6
..	..	3	..	..	..	..	..	..	..	1	..	4	14	6	Insanity .....	1
3	18	6	42	8	16	14	30	26	26	3	12	..	391	317	Bronchitis, Influenza, and Catarrh .....	25
..	..	1	1	..	..	..	..	..	1	4	..	..	17	21	Pleurisy & Pneumonia.	2
..	2	3	1	..	3	1	..	..	2	..	..	15	70	76	Skin Disease.....	..
1	..	..	11	..	2	4	2	5	1	3	2	..	75	70	Dyspepsia .....	..
0	16	8	76	..	6	5	3	15	35	3	40	53	764	709	Accidents and diseases not classified.....	28
1	40	26	161	11	32	28	44	57	84	23	61	82	1736	1563	TOTAL.....	75

‡ Typhoid.

indebted for the annexed Returns.

- (17) Dr. SAMUEL BOOTH,

(18) Mr. M. O. LARMUTH,

(19) „ J. O. BRADBURY,

(20) „ W. B. STOTT,
- (21) Mr. JOHN SMITH,

(22) Dr. ALEX. WILSON,

(23) Mr. H. M. WILLIAMSON

(24) „ JOSEPH FOSTER,
- (25) Mr. JOHN RAYNER,

(26) „ J. V. L. WESTMACOTT,

(27) „ JOHN HOLDEN,

(28) „ W. H. HUGHES.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	1	1	1	..	..	..	..	..	3	3
Measles .....	..	..	..	..	..	..	..	..	..	..	1	1	10
Whooping-cough .....	1	2	1	..	..	2	2	1	..	1	..	10	5
Scarlatina .....	11	3	2	3	3	5	2	..	4	5	2	40	8
Diarrhœa .....	..	..	..	..	..	1	2	..	..	..	1	4	1
Fever .....	..	..	5	..	a1	1	a2	..	1	..	..	10	7
Diseases of the Lungs ..	25	26	1	11	..	11	2	..	7	21	3	107	57
Other causes .....	9	9	28	6	15	b14	c22	d10	11	13	6	143	129
TOTAL NO. OF DEATHS.	46	40	37	21	20	35	32	11	23	40	13	318	220
TOTAL NO. OF BIRTHS.	40	33	11	23	19	24	18	15	37	57	25	302	347

a 1 Typhus.      b 5 Inquests.      c 6 Inquests.      d 3 Croup.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st October.	4 Weeks ending 23th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASE.	5 Weeks ending 31 st October.	4 Weeks ending 28th Nov.	4 Weeks ending 2 4th Dec.	TOTAL
81	32	28	141	..... Small-pox .....	64	46	22	132
11	19	9	39	..... Chicken-pox .....	5	13	3	21
46	33	46	125	..... Measles .....	44	43	34	121
141	94	85	320	..... Scarlatina .....	370	217	196	783
4	10	..	14	..... Diphtheria .....	7	2	2	11
56	43	97	196	.... Whooping-cough ....	86	68	61	215
4	2	1	7	..... Croup .....	..	2	7	9
328	384	353	1565	..... Diarrhœa .....	336	232	177	745
..	..	4	4	..... Dysentery .....	31	20	24	75
..	1	..	1	..... Cholera .....	..	..	..	..
18	32	26	76	..... Erysipelas .....	94	54	68	216
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
16	11	16	43	..... Insanity .....	41	31	37	109
784	770	1028	2582	. Bronchitis and Catarrh..	1161	1126	1246	3533
17	11	9	37	..... Pleurisy .....	78	47	77	202
32	17	14	63	..... Pneumonia .....	..	..	..	..
2	2	4	8	..... Carbuncle .....	..	..	..	..
5063	3563	4014	12640	{ Accidents, and all other Diseases. }	5780	4674	4505	14959
7103	5024	5734	17861	..... TOTAL .....	8097	6575	6459	21131

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER:			Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.
	Inches.	Wet Days.						
Royton .....	3.775	21						
Old Trafford .....	3.064	21						
Eccles .....	2.775	24						
Bowdon .....	2.416	22						
Thelwall .....	2.335	16						
Height of barometer cistern above sea level....	130 ft.	123 ft.	96 ft.	127 ft.	522 ft.	221 ft.		
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.		
Mean @ 32° F., and reduced to sea level ....	30.320	30.317	30.306	30.315	30.305	30.306		
Highest .....	30.613	30.588	30.610	30.546	30.115	30.472		
Lowest .....	29.823	29.775	29.810	29.766	29.310	29.682		
Range .....	0.790	0.813	0.800	0.780	0.805	0.790		
Temperature.								
Adopted Mean .....	28.6	24.3	24.1	24.9	24.8	24.6		
Range for Week .....	24.2	27.0	23.0	24.3	27.6	23.3		
Daily Range .....	20.8	13.8	11.7	11.9	13.2	9.9		
Maximum in Shade .....	49.8	39.0	35.2	36.3	40.4	35.2		
Minimum in Shade .....	25.6	12.0	12.2	12.0	12.8	11.9		
Temperature of Dew Point .....	25.0	19.6	21.4	23.2	22.8	20.0		
Hygrometrical condition of the Atmosphere.								
Degree of Humidity (Saturation—1,000) ....	GRS. 0.866	GRS. 0.811	GRS. 0.884	GRS. 0.923	GRS. 0.910	GRS. 0.812		
Prevailing Winds .....		SE	E,SE	NNE,E	E,SE	E,SE		
Rain .....		0.000	0.000	0.000	0.000	0.000		

January 9, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.





# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

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### WEEKLY RETURN.

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VOL. IV.] WEEK ENDING SATURDAY, JANUARY 16, 1864. [No. 181.

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**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

1,889 new cases of disease occurred last week in connection with the Public Institutions: in the preceding week the number was 1,736 or about 150 less.

On turning to particular diseases we find, as might naturally be anticipated, the chief increase under diseases connected with the respiratory organs. Thus, 103 more persons suffered attacks of Bronchitis, and 23 more applied for relief in consequence of symptoms of Consumption than in the week ending January 9th. We would direct attention to the fact that during the whole of that week the weather was extremely cold, the mean temperature of the air being about 12 degrees lower than in that which has just terminated. Nevertheless its full effects, as bearing on the production of disease, were only rendered apparent in the week that followed.

There were 44 new cases of Scarlatina, an increase of 5 on the previous return.

50 persons suffered from Continued Fever; and, of this number, 5 were cases of Typhus and 4 of Typhoid. Of these 9 cases 6 are reported by Mr. Mann as having occurred in the St. Peter's District.

There were 23 new cases of Whooping Cough, 10 more than in the week ending January the 9th.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 323 deaths and 286 births were registered in Manchester and Salford: in the preceding week the former amounted to 318, and in the corresponding one of last year to 220.

For some weeks past the rate of mortality, as compared with what it was twelve months ago, has been decidedly high.

In London, according to the last return of the Registrar General, the deaths exceeded the average by nearly 200. These persons (as we read in the report) "were killed suddenly by the cold wave of the atmosphere." The increase then appeared chiefly apparent in diseases of the respiratory organs. No fewer than 809 of the deaths were in persons of sixty years of age and upwards.

At the Royal Observatory, Greenwich, the mean temperature of the air was  $36.8^{\circ}$ , at Old Trafford  $36.6^{\circ}$ , or about the same.

The most remarkable feature in connection with the meteorology of the week was the great humidity of the atmosphere—(it will be recollected that dense fogs were frequent)—the mean degree (complete saturation being represented by 1000) being no less than 950 at Thelwall, 946 at Bowdon and Royton, 920 at the Infirmary, and 916 at Old Trafford; at Eccles, where the air proved considerably drier, 868.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, FALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment in 1861.

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	1	1	1	..	..	..	3	..	1	..	1	..	..	..	..	..
Chicken-pox .....	..	..	..	..	2	..	2	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	2	1	..
Scarlatina .....	1	..	1	3	1	..	6	..	2	..	..	..	2	1	3	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	1	..	1	3	..	5	..	..	..	..	..	..	8	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	2	..	2	1	1	6	..	..	15	..	..	1	9	2	1
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	*6	†2	4	†1	..	†5	18	15	..	..	..	1	..	9	..	§1
Erysipelas .....	..	..	..	..	..	..	..	1	..	5	1	..	..	..	..	..
Rheumatism .....	3	4	4	1	5	1	18	6	2	24	2	..	2	1	1	..
Neuralgic Affections .....	..	..	..	..	1	..	1	..	..	10	..	..	..	..	1	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	7	..	..	..	2	1	..
Phthisis ....	..	2	..	..	4	3	9	6	..	35	1	4	1	..	5	..
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	1	..	..	..
Bronchitis, Influenza & Catarrh	21	38	19	9	11	21	119	21	..	92	7	4	11	9	7	2
Pleurisy and Pneumonia....	1	2	..	1	2	..	6	..	..	..	3	2	..	..	..	1
Skin Diseases.....	2	..	..	1	..	1	4	13	..	12	..	..	..	3	11	..
Dyspepsia .....	1	2	2	..	6	2	13	..	..	18	1	1	2	8	1	..
Accidents and diseases not } classified..... }	50	18	22	17	7	23	137	36	29	260	14	9	12	34	10	4
TOTAL .....	86	72	53	36	44	57	348	106	34	478	30	21	32	86	44	9

\* 3 Typhus and 3 Typhoid.

+ Febricula

‡ Typhoid.

‡ 1 Typhus.

### Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) „ J. LORIMER,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. C. H. BRADDON,  
(8) „ M. ROWLAND DAY,

(9) }  
(10) } Mr. S. M. BRADLEY,  
(11) } „ G. E. WALKER,  
(12) } „ T. M. JOHNSON,

(13) Mr. H. RUNCORN,  
(14) Dr. WHITEHEAD,  
(15) Mr. W. GOLLAND,  
(16) „ J. TEALE,



SANITARY ASSOCIATION.

TIONS OF MANCHESTER AND ADJOINING DISTRICTS.  
he Week ending the 16th day of January, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON AND PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477 .....			.. 646 ..		508.		..... 2650 .....			..... 24,448 .....		
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739							
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
16	17	18	19	20	21	22	23	24	25	26	27	28					
1	..	..	..	..	..	..	..	1	1	..	..	..	8	11	Small-pox .....	..	
..	..	..	..	..	..	..	..	1	..	..	..	..	3	..	Chicken-pox .....	..	
..	..	1	..	..	..	..	..	..	..	..	..	11	16	42	Measles .....	1	
..	1	..	6	..	2	1	3	..	10	2	1	4	44	8	Scarlatina .....	6	
..	..	..	..	..	..	..	..	..	..	1	..	..	1	4	Diphtheria .....	..	
..	1	..	4	..	..	..	2	..	2	1	..	..	24	19	Whooping-cough ....	3	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
2	1	..	..	4	2	..	..	1	2	..	..	..	46	46	Diarrhoea .....	2	
1	..	..	..	..	1	..	..	..	..	1	2	..	5	6	Dysentery .....	..	
..	1	..	2	..	..	..	..	..	2	1	..	..	50	51	Continued Fever ....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	7	5	Erysipelas .....	..	
2	1	3	5	2	1	..	2	3	8	..	4	..	87	92	Rheumatism .....	..	
..	2	..	3	..	..	..	..	..	1	..	..	..	18	15	Neuralgic Affections ..	..	
..	..	..	5	..	..	..	..	..	..	..	1	8	30	33	Constitutional Syphilis	..	
1	1	..	8	..	1	1	..	1	..	1	2	..	77	53	Phthisis .....	8	
..	..	..	..	..	..	1	..	2	..	..	..	1	7	14	Insanity .....	2	
6	20	5	49	5	17	21	18	22	24	4	16	5	494	382	Bronchitis, Influenza, and Catarrh.....	19	
..	..	..	2	..	..	..	..	..	1	3	..	..	18	24	Pleurisy & Pneumonia.	2	
1	..	1	7	..	..	3	..	2	..	..	..	9	66	94	Skin Disease.....	1	
1	2	..	14	..	2	6	5	3	3	..	3	..	83	66	Dyspepsia .....	..	
1	14	7	61	..	11	9	1	11	36	12	56	31	805	756	Accidents and diseases not classified.....	36	
6	44	17	166	11	37	42	31	47	90	26	85	69	1889	1722	TOTAL.....	82	

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

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(26) „ J. V. L. WESTMACOTT,  
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# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	..	1	..	..	..	..	1	4
Measles .....	1	2	..	..	..	..	1	..	1	2	..	7	8
Whooping-cough.....	..	1	..	..	1	2	3	..	2	3	..	12	7
Scarlatina .....	4	2	..	1	2	5	3	1	3	6	4	31	5
Diarrhœa .....	1	..	..	..	1	1	..	..	1	1	..	5	2
Fever .....	1	3	2	1	..	..	a1	..	c2	..	..	10	9
Diseases of the Lungs ..	24	10	..	14	..	11	6	..	9	20	6	100	57
Other causes.....	12	16	16	10	21	11	b22	12	12	21	4	157	128
<b>TOTAL NO. OF DEATHS.</b>	<b>43</b>	<b>34</b>	<b>18</b>	<b>26</b>	<b>25</b>	<b>30</b>	<b>37</b>	<b>13</b>	<b>30</b>	<b>53</b>	<b>14</b>	<b>323</b>	<b>220</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>36</b>	<b>41</b>	<b>12</b>	<b>27</b>	<b>12</b>	<b>26</b>	<b>22</b>	<b>12</b>	<b>28</b>	<b>51</b>	<b>19</b>	<b>286</b>	<b>311</b>

a Typhus.                      b 1 Inquest.                      c 1 Typhoid, aged 17.

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
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Population in 1861, 161,680.

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828	384	353	1565	.....Diarrhœa .....	336	232	177	745
..	..	4	4	.....Dysentery.....	31	20	24	75
..	1	..	1	..... Cholera .....	..	..	..	..
18	32	26	76	.....Erysipelas.....	94	54	68	216
..	..	..	..	... Puerperal Fever ...	..	..	..	..
16	11	16	43	..... Insanity .....	41	31	37	109
784	770	1028	2582	..Bronchitis and Catarrh..	1161	1126	1246	3533
17	11	9	37	..... Pleurisy .....	78	47	77	202
32	17	14	63	..... Pneumonia .....				
2	2	4	8	..... Carbuncle .....	..	..	..	..
5063	3563	4014	12640	{ Accidents, and all other Diseases. }	5780	4674	4505	14959
7103	5024	5734	17861	..... TOTAL .....	8097	6575	6459	21131

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		Inches.	Wet Days.						
Royton .....	3.775	.....	21						
Old Trafford....	3.064	.....	21						
Eccles.....	2.775	.....	24						
Bowdon .....	2.416	.....	22						
Thelwall .....	2.335	.....	16						
Height of barometer cistern above sea level....				130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level ....				30.152	30.176	30.158	30.177	30.138	30.154
Highest.....				30.241	30.273	30.304	30.246	29.796	30.164
Lowest.....				29.822	29.807	29.828	29.792	29.347	29.706
Range .....				0.419	0.466	0.476	0.454	0.449	0.458
<b>Temperature.</b>									
Adopted Mean .....				40.8	36.6	35.9	36.7	35.3	36.6
Range for Week .....				18.6	22.0	21.0	22.8	23.9	22.6
Daily Range.....				10.4	9.3	6.0	7.4	10.2	6.6
Maximum in Shade .....				47.5	46.0	44.0	45.4	45.6	44.8
Minimum in Shade .....				27.9	24.0	23.0	22.6	21.7	22.2
Temperature of Dew Point .....				38.5	34.2	34.6	34.6	34.2	35.2
<b>Hygrometrical condition of the Atmosphere.</b>									
Degree of Humidity (Saturation—1,000) ....				GRS. 0.920	GRS. 0.916	GRS. 0.950	GRS. 0.868	GRS. 0.946	GRS. 0.946
Prevailing Winds .....					NE	S,SE	SE,SE	SE,SE	S,SE
Rain .....					0.158	0.233	0.412	0.150	0.309

January 16, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.





# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, JANUARY 23, 1864.

[No. 182.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The number of new cases of disease that occurred in connection with the Public Institutions of Manchester and Salford amounted in the week ending January 23rd to 1,805; in the preceding week the number was 1,889, and in the corresponding one of last year 1,645.

We observe an increase in respect to several of the zymotic diseases. In the case of Scarlet Fever this increase amounted to 6, in Measles to 9, and in Continued Fever to 6.

Measles appears especially prevalent in Salford and Pendleton, no fewer than 10 of the 25 cases having occurred among the patients of the Salford Dispensary.

Scarlet Fever was chiefly met with at the Chorlton Dispensary, and in the Chorlton Poor Law District.

The increase in Whooping Cough, to which we have for several weeks directed attention, was most marked within the limits of the Manchester Township.

Of the 56 cases of Continued Fever no fewer than 12 were examples of Typhus,—4 of these again occurred in the St. Peter's District. In the preceding week 3 persons experienced attacks of this formidable disorder in the same part of the town.

Diseases of the respiratory organs exhibit a decrease of 84, doubtless in consequence of the marked change in the temperature of the air.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 305 deaths and 309 births were registered in the eleven districts from which our returns are compiled; in the preceding week the former amounted to 323.

The number of fatal cases of Scarlet Fever (31) in the two weeks exactly corresponded. Last week 10 of the deaths arising from the latter disease were entered in the Greengate District.

The deaths from disorders of the respiratory organs amounted to 97, or 3 less than in the previous week.

In London, as we learn from the last return of the Registrar General, the deaths last week exceeded the average by 651. An increase was principally remarked under diseases of the respiratory organs.

At the Royal Observatory, Greenwich, the mean temperature of the air was  $44.5^{\circ}$ , or  $7.7^{\circ}$  above the average of the last forty-three years. At Old Trafford it was  $40.8^{\circ}$ , and at Thelwall, Bowdon, and Eccles  $41.2^{\circ}$ .

In the neighbourhood of Manchester about one inch of rain is stated to have fallen.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.

ERRATUM.—In our last week's Summary the deaths in London were (by an error of the press) said to have exceeded the average by about 200,—the increase really amounted to 900.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment During the Year 1861

MANCHESTER.																
Area in Statute Acres .....								Manchester Township 1,645 .....								
Population in 1861 .....								,, ,, 185,050 .....								
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
							Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's		Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	..	..	..	..	..	..	2	..	..	1	..	1	..	..
Chicken-pox .....	..	..	..	..	2	..	2	..	..	1	..	..	..	..	..	1
Measles .....	1	..	..	..	3	1	5	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	2	3	..	3	..	8	..	..	..	..	..	1	4	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	2	2	..	4	..	..	4	..	..	4	6	1	..
Croup .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	..	..	2	..	2	..	..	15	..	..	..	4	4	2
Dysentery .....	..	..	..	..	..	..	..	..	..	2	..	1	..	1	..	..
Continued Fever.....	*4	..	4	*1	..	†7	16	12	6	..	..	‡4	*2	5	..	..
Erysipelas .....	1	..	..	1	1	..	3	..	..	6	..	1	..	..	..	..
Rheumatism .....	2	8	3	1	4	2	20	5	1	28	..	..	4	1	1	..
Neuralgic Affections .....	..	3	..	1	1	1	6	..	..	12	..	..	..	..	2	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	12	..	6	..	..	..	1	..	..
Phthisis .....	1	..	..	2	3	2	8	3	..	32	3	2	2	1	3	..
Insanity .....	..	..	..	..	..	..	..	4	..	..	..	..	1	..	..	..
Bronchitis, Influenza & Catarrh	10	33	21	9	14	15	102	13	..	69	4	5	4	15	8	2
Pleurisy and Pneumonia....	1	..	..	1	2	..	4	..	..	..	3	..	1	..	1	..
Skin Diseases.....	..	3	1	1	..	2	7	8	..	17	..	..	1	5	8	..
Dyspepsia .....	1	1	2	2	7	..	13	..	..	23	..	1	..	2	4	1
Accidents and diseases not classified.....	45	19	19	16	9	22	130	46	26	246	5	6	9	46	10	3
TOTAL .....	66	69	53	37	54	52	331	103	35	461	15	21	29	92	43	9

\* Typhus.                      † 3 Typhus.                      ‡ 2 Typhus and 2 Typhoid.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

(4) „ J. LORIMER,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. C. H. BRADDON,

(8) „ M. ROWLAND DAY,
- (9) } Mr. S. M. BRADLEY,

(10) } „ G. E. WALKER,

(11) } „ T. M. JOHNSON,

(12) }
- (13) Mr. H. RUNCORN,

(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAND,

(16) „ J. TEALE,



# SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS.

e Week ending the 23rd day of January, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.	
..... 1,329 .....					..... 477. ....			.. 646. ...		508.	..... 2650.....							
..... 70,967. ....					.. 68,209. ...			.. 44,850 ..		21739	..... 24,448 .....							
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.			
6	17	18	19	20	21	22	23	24	25	26	27	28						
..	..	..	..	..	..	..	..	¶1	..	1	..	1	7	13		Small-pox .....	1	
1	..	4	2	..	..	..	..	..	..	..	..	..	11	1		Chicken-pox .....	..	
..	..	10	..	..	..	..	..	..	..	3	..	7	25	35		Measles .....	..	
1	1	..	5	..	4	2	1	5	12	2	3	..	50	9		Scarlatina .....	7	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		Diphtheria .....	..	
..	..	..	2	..	..	..	..	..	4	..	..	..	25	8		Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	1	..	..	..	2	2		Croup .....	..	
1	..	1	1	3	..	1	..	1	1	1	..	..	37	40		Diarrhœa .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	5		Dysentery .....	..	
1	..	2	3	..	§2	..	2	..	..	..	..	1	56	44		Continued Fever ....	4	
1	..	..	..	..	1	..	..	..	1	..	1	..	14	5		Erysipelas .....	..	
3	2	2	6	1	..	1	2	1	6	2	3	..	89	73		Rheumatism .....	..	
1	1	..	3	..	..	..	1	..	..	..	..	..	26	11		Neuralgic Affections ..	..	
..	..	2	3	1	..	..	..	..	2	..	..	5	32	35		Constitutional Syphilis	..	
..	..	1	9	..	..	..	..	3	1	1	3	1	73	34		Phthisis .....	12	
..	1	..	..	..	..	..	..	..	..	..	..	..	6	8		Insanity .....	..	
2	11	3	53	4	9	20	14	13	30	4	11	2	408	376		Bronchitis, Influenza, and Catarrh .....	19	
..	..	..	4	..	..	..	..	..	..	3	..	..	16	19		Pleurisy & Pneumonia.	4	
..	1	..	10	..	1	2	..	1	1	..	..	13	75	76		Skin Disease.....	..	
2	..	..	17	..	2	6	1	8	2	4	2	..	88	65		Dyspepsia .....	..	
..	6	7	58	..	16	10	4	9	26	4	41	37	761	786		Accidents and diseases not classified.....	35	
23	32	176	9	35	42	25	42	42	87	25	64	67	1805	1645		TOTAL.....	82	

‡ Febricula.

¶ Aged 20, not vaccinated.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L.WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ W. H. HUGHES.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	a1	1	..	..	..	..	1	..	3	1
Measles.....	1	..	..	1	..	..	..	..	..	1	..	3	15
Whooping-cough.....	2	1	..	..	2	1	4	..	1	3	..	14	2
Scarlatina.....	4	..	1	4	1	10	2	1	4	3	1	31	14
Diarrhoea.....	2	..	1	..	1	..	..	..	..	3	1	5	5
Fever.....	..	2	1	..	2	..	1	..	..	c1	..	7	8
Diseases of the Lungs ..	27	11	..	8	2	9	6	..	10	20	4	97	82
Other causes.....	11	7	28	11	18	68	19	616	8	16	3	145	121
TOTAL NO. OF DEATHS.	47	21	31	25	27	28	32	17	23	45	9	305	248
TOTAL NO. OF BIRTHS.	33	32	27	19	18	30	29	23	28	45	25	309	313

a Aged 59, a Cabman.

b 1 Inquest.

c Typhoid,

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st October.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASE.	5 Weeks ending 31 st October.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
81	32	28	141	.....Small-pox.....	64	46	22	132
11	19	9	39	..... Chicken-pox .....	5	13	3	21
46	33	46	125	..... Measles .....	44	43	34	121
141	94	85	320	..... Searlatina.....	370	217	196	783
4	10	..	14	..... Diphtheria .....	7	2	2	11
56	43	97	196	.... Whooping-cough ....	86	68	61	215
4	2	1	7	..... Croup.....	..	2	7	9
328	384	353	1565	..... Diarrhoea .....	336	232	177	745
..	..	4	4	..... Dysentery.....	31	20	24	75
..	1	..	1	..... Cholera .....	..	..	..	..
18	32	26	76	..... Erysipelas.....	94	54	68	216
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
16	11	16	43	..... Insanity .....	41	31	37	109
784	770	1028	2582	.Bronchitis and Catarrh..	1161	1126	1246	3533
17	11	9	37	..... Pleurisy .....	78	47	77	202
32	17	14	63	..... Pneumonia .....				
2	2	4	8	..... Carbuncle.....				
5063	3563	4014	12640	{ Accidents, and all other Diseases. }	5780	4674	4505	14959
7103	5024	5734	17861	..... TOTAL .....	8097	6575	6459	21131

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER:			Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T.MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W.Reynolds Esq.
	Inches.	Wet Days.						
Royton .....	3.775	21						
Old Trafford....	3.064	21						
Eccles.....	2.775	24						
Bowdon .....	2.416	22						
Thelwall .....	2.335	16						
Height of barometer cistern above sea level....			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level ....			29.914	29.916	29.893	29.912	29.878	29.902
Highest.....		Unreduced {	30.124	30.114	30.130	30.082	29.647	30.008
Lowest .....			29.510	29.420	29.540	29.476	29.056	29.418
Range .....			0.614	0.694	0.590	0.606	0.591	0.590
<b>Temperature.</b>								
Adopted Mean .....			44.0	40.8	41.2	41.2	39.9	41.2
Range for Week .....			18.8	21.7	21.5	21.3	21.9	21.8
Daily Range.....			6.7	13.0	9.0	9.9	11.0	9.0
Maximum in Shade .....			53.2	52.7	52.0	52.4	51.0	51.8
Minimum in Shade .....			34.6	31.0	30.5	31.1	29.1	30.0
Temperature of Dew Point .....			39.6	38.6	38.8	38.0	37.0	38.9
<b>Hygrometrical condition of the Atmosphere.</b>								
Degree of Humidity (Saturation—1,000) ....			GRS. 0.840	GRS. 0.928	GRS. 0.870	GRS. 0.894	GRS. 0.920	GRS. 0.920
Prevailing Winds .....				S,SE	S,SW	SW,SE	S,SE	SE,SW
Rain .....				0.991	0.971	0.915	0.980	0.909

January 23, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, JANUARY 30, 1864.

[No. 183.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending January 30th, 1,606 new cases of disease occurred in connection with the various Charitable Institutions: in the two preceding weeks the respective numbers were 1,889 and 1,805. Thus the considerable increase in the amount of sickness, which arose as a consequence of the intense cold in the beginning of the month, appears at present to have subsided.

Bronchitis and kindred affections of the respiratory organs, which a fortnight ago contributed 492 cases to our return, last week fell to 320, or 18 less than in the corresponding week of last year.

On turning to the zymotic diseases we observe a decrease under Scarlet Fever, amounting to 11. Of the 39 cases entered 9 were met with among the patients of the Salford Dispensary, and 9 more among those of the Chorlton Dispensary.

Continued Fever in its various forms attacked 52 persons in the course of the week, though only 5 appears to have proved examples of Typhus; but, of these 5, 3 are again reported by Mr. Mann as having come under his observation in the St. Peter's District. In the last three weeks 10 cases of Typhus have been reported from this quarter of the town.

Of 23 seizures from Whooping Cough St. Mary's Hospital contributed no fewer than 9.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

With a diminution in the amount of sickness, it is satisfactory to be able to record a decrease likewise in the mortality of the week. Thus the deaths amounted to 289, in place of 305 and 323,—the respective numbers in the two previous returns.

The births were unusually numerous, 335 infants being born during the week.

Fewer persons (27) died from Scarlet Fever than in any preceding week since that ending August 1st 1863. On the other hand 15 fatal terminations are attributed to Continued Fever—5 to Typhus and 2 to Typhoid. Ten children died from attacks of Whooping Cough.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 39·6°, at Old Trafford it was 39·3°, at Bowdon 39·7°, at Eccles 39·8°, and at Thelwall 40·1°. Thus we observe that the weather at several of the stations in the neighbourhood of Manchester was quite as mild as near London.

We feel gratification at announcing that an additional column is this week added to our Meteorological Return, the Rev. J. C. BATES F.R.A.S., having kindly undertaken to supply us with a copy of his observations, taken at Castleton Moor, near Rochdale.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, FALM MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment During the Year 1861

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	..	1	2	..	3	2	..	..	..	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	..	..	..	3	..	4	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	1	1	..	1	1	4	..	..	..	..	..	5	4	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	2	1	2	..	5	..	..	3	..	..	..	9	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diarrhoea.....	..	2	2	..	3	..	7	..	..	7	..	..	..	4	3	2
Dysentery .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Continued Fever.....	*6	..	5	..	2	+3	16	9	4	..	..	+1	3	5	..	..
Erysipelas .....	..	..	..	..	1	..	1	1	..	6	..	..	1	..	..	..
Rheumatism .....	2	6	3	..	5	2	18	3	2	47	1	1	1	1	..	..
Neuralgic Affections .....	..	..	..	..	..	1	1	..	..	19	..	..	..	..	1	..
Constitutional Syphilis .....	..	..	..	1	2	..	3	11	..	15	..	..	..	1	4	1
Phthisis .....	1	..	2	1	7	1	12	3	..	21	..	..	1	1	5	..
Insanity .....	..	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	6	27	8	4	14	17	76	19	..	53	..	4	3	8	11	2
Pleurisy and Pneumonia....	1	1	..	1	4	1	8	..	1	2	2	..	1	..	1	..
Skin Diseases.....	..	..	..	1	..	1	2	10	..	20	..	..	1	5	6	..
Dyspepsia .....	..	2	..	..	4	1	7	..	1	37	2	..	2	7	4	1
Accidents and diseases not classified.....	30	18	20	13	6	20	107	42	22	173	5	4	6	50	7	2
TOTAL .....	47	57	44	23	56	48	275	101	30	404	10	10	24	95	46	8

\* 3 Typhus.

+ 1 Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

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(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAND

(16) „ J. TEALE,



# SANITARY ASSOCIATION.

## DISTRICTS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 30th day of January, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON AND PENDLEBURY.						
..... 1,329 .....					..... 477 .....			.. 646 ..		508.		..... 2650 .....					Area in Statute Acres.	
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739		..... 24,448 .....					Population in 1861.	
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		DEATHS.		
17	18	19	20	21	22	23	24	25	26	27	28							
..	..	..	..	..	2	..	..	..	1	..	1	9	28	Small-pox .....	1			
..	..	..	..	..	..	..	..	..	1	..	..	1	3	Chicken-pox .....	..			
..	..	..	..	..	..	..	..	1	..	..	1	6	25	Measles .....	1			
..	..	9	..	1	1	1	1	9	1	..	1	38	9	Scarlatina .....	7			
..	..	..	..	..	..	..	..	..	1	..	..	1	..	Diphtheria .....	..			
..	..	..	..	..	..	1	..	2	..	..	..	22	15	Whooping-cough ....	1			
..	..	..	..	..	..	..	..	..	..	..	..	1	2	Croup .....	..			
1	..	1	4	..	..	..	..	..	1	..	..	30	29	Diarrhoea .....	1			
..	1	..	..	..	..	..	..	..	..	..	..	2	9	Dysentery .....	..			
..	..	1	3	..	1	1	..	1	1	..	..	50	43	Continued Fever ....	3			
..	..	..	..	..	..	..	1	1	..	1	..	12	7	Erysipelas .....	..			
1	1	..	5	1	3	1	2	4	1	3	..	97	68	Rheumatism .....	..			
..	..	1	..	..	..	..	..	..	..	..	..	22	17	Neuralgic Affections ..	..			
..	1	3	4	1	..	..	1	..	..	2	6	53	32	Constitutional Syphilis	1			
..	2	..	7	..	..	1	1	3	..	3	..	60	53	Phthisis .....	8			
..	1	3	..	..	..	..	..	..	..	..	2	8	9	Insanity .....	1			
5	15	2	33	4	10	10	8	18	24	3	13	322	338	Bronchitis, Influenza, and Catarrh .....	16			
..	..	..	2	..	..	..	1	1	1	3	1	24	12	Pleurisy & Pneumonia.	..			
..	..	1	12	..	1	3	..	1	2	..	10	74	85	Skin Disease.....	..			
..	..	..	13	..	..	9	3	9	..	3	3	103	82	Dyspepsia .....	..			
..	9	5	75	..	6	9	3	19	34	5	42	37	671	848	Accidents and diseases not classified.....	28		
30	15	165	10	24	38	20	56	79	21	68	58	1606	1714	TOTAL.....	68			

† Febricula.

indebted for the annexed Returns.

- |                         |                           |                           |
|-------------------------|---------------------------|---------------------------|
| (17) Dr. SAMUEL BOOTH,  | (21) Mr. JOHN SMITH,      | (25) Mr. JOHN RAYNER,     |
| (18) Mr. M. O. LARMUTH, | (22) Dr. ALEX. WILSON,    | (26) „ J.V.L. WESTMACOTT, |
| (19) „ J. O. BRADBURY,  | (23) Mr. H. M. WILLIAMSON | (27) „ JOHN HOLDEN,       |
| (20) „ W. B. STOTT,     | (24) „ JOSEPH FOSTER,     | (28) „ J. WATSON.         |



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	1	1	1	..	..	..	..	..	2	5	1
Measles.....	..	..	..	..	..	..	..	..	..	..	..	..	8
Whooping-cough.....	4	..	..	..	..	..	1	..	2	3	..	10	3
Scarlatina.....	3	..	1	1	3	5	3	1	3	4	3	27	9
Diarrhœa.....	1	1	1	..	..	..	..	..	..	..	..	3	6
Fever.....	1	3	a5	..	b1	2	b1	..	e2	..	..	15	11
Diseases of the Lungs ..	10	13	1	6	..	9	2	..	7	14	5	67	48
Other causes.....	8	15	34	5	10	7	c23	d17	15	20	8	162	129
<b>TOTAL NO. OF DEATHS.</b>	<b>27</b>	<b>32</b>	<b>43</b>	<b>13</b>	<b>15</b>	<b>23</b>	<b>30</b>	<b>18</b>	<b>29</b>	<b>41</b>	<b>18</b>	<b>289</b>	<b>215</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>33</b>	<b>29</b>	<b>15</b>	<b>19</b>	<b>14</b>	<b>45</b>	<b>23</b>	<b>19</b>	<b>33</b>	<b>71</b>	<b>24</b>	<b>335</b>	<b>324</b>

a Typhus.    b Typhoid.    c 5 Inquests.    d 1 Inquest.    e 1 Gastric aged 9, and 1 Typhus aged 50 years.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 320,815.

5 Weeks ending 31st October.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASE.	5 Weeks ending 31 st October.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
81	32	28	141	.....Small-pox.....	64	46	22	132
11	19	9	39	..... Chicken-pox .....	5	13	3	21
46	33	43	125	..... Measles .....	44	43	34	121
141	94	85	320	.....Scarlatina.....	270	217	196	783
4	10	..	14	..... Diphtheria .....	7	2	2	11
56	43	97	196	.... Whooping-cough ....	83	68	61	215
4	2	1	7	.....Croup.....	..	2	7	9
328	334	353	1565	.....Diarrhœa.....	233	232	177	745
..	..	4	4	.....Dysentery.....	31	20	24	75
..	1	..	1	..... Cholera .....	..	..	..	..
18	32	26	76	.....Erysipelas.....	94	54	68	216
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
16	11	16	43	..... Insanity .....	41	31	37	109
784	770	1028	2582	.Bronchitis and Catarrh..	1161	1123	1216	3533
17	11	9	37	..... Pleurisy .....	73	47	77	202
32	17	14	63	..... Pneumonia .....	..	..	..	..
2	2	4	8	..... Carbuncle.....	..	..	..	..
5063	3563	4014	12640	{ Accidents, and all other Diseases. }	5780	4674	4505	14959
7103	5024	5734	17861	..... TOTAL .....	8097	6575	6459	21131

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN DECEMBER :			Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.							
Royton .....	3.775	21							
Old Trafford..	3.064	21							
Eccles.....	2.775	24							
Bowdon .....	2.416	22							
Thelwall ....	2.335	16							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	500 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			30.171	30.169	30.160	30.167	30.130	30.153	30.171
Highest.....		Unreduced {	30.302	30.314	30.358	30.306	29.850	30.230	29.886
Lowest .....			29.701	29.726	29.792	29.698	29.226	29.644	29.266
Range .....			0.601	0.588	0.566	0.608	0.624	0.586	0.620
<b>Temperature.</b>									
Adopted Mean .....			41.2	39.3	40.1	39.8	38.7	39.7	37.9
Range for Week .....			17.8	23.6	19.3	19.5	20.6	18.2	19.1
Daily Range .....			7.0	14.1	10.4	9.1	10.9	8.7	10.0
Maximum in Shade .....			53.0	52.6	49.5	48.4	48.6	49.1	47.1
Minimum in Shade .....			35.2	29.0	30.2	28.9	28.0	30.9	28.0
Temperature of Dew Point .....			36.5	36.3	36.5	35.7	36.1	36.9	34.8
<b>Hygrometrical condition of the Atmosphere.</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.861	0.912	0.868	0.856	0.903	0.904	0.878
Prevailing Winds .....				S	S,SW	SE,SW	SW	SE,SW	W,SW
Rain .....				0.372	0.279	0.358	0.345	0.244	0.538

January 30, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, FEBRUARY 6, 1864.

[No. 184.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The number of new cases of disease that occurred in the week ending February the 6th amounted to 1,558: in the preceding week it was 1,606, and in the corresponding one of last year 1,568.

On turning to particular diseases the results of the return, generally, may be considered satisfactory.

The cases of Scarlet Fever, in the course of the last two weeks, were respectively 38 and 36. Thus, though the difference is small, it is satisfactory to observe that it is at all events on the right side. 8 of the seizures again occurred among the patients of the Chorlton Dispensary, and 6 more among those of the Salford Dispensary; both these institutions were particularly referred to in our last summary as heavy sufferers from the present epidemic.

The diminution under Continued Fever amounted to 9. Of the 41 cases entered 4 are referred to as examples of Typhus, and 2 of Typhoid Fever.

We have for several weeks referred to the increasing prevalence of Whooping Cough; last week 30 cases, in place of 22 in the preceding week, were contributed to our return.

As might naturally be anticipated, from the general mildness of the weather (the late frost having hardly commenced), the seizures from Bronchitis and Influenza fell from 492, the number recorded three weeks ago, to 300.

No other disease proved in any degree excessive.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The deaths recorded last week in the eleven registration districts amounted to 237: in the two preceding weeks the respective numbers were 289 and 305. Thus we observe, generally, a marked improvement in the public health.

In the last few weeks there has been a considerable increase in the number of births; last week no fewer than 391 were entered in the registers. In the corresponding weeks of last year, likewise, the numbers were considerable. Possibly this may be owing to the large number of marriages which in the manufacturing districts are so frequently celebrated about Easter.

The deaths from Scarlet Fever were somewhat more numerous than in the previous week amounting to 34,—11 occurred in the Hulme District.

The deaths from Diseases of the Lungs during the last two weeks numbered 67 and 64.

According to the last report of the Registrar General the deaths in London last week exceeded the estimated average by 174; there, also, Whooping Cough proved very general.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 37·8°, at Old Trafford it was 40·5°, and at Eccles 39·3°. Thus, in the neighbourhood of Manchester, the weather was considerably milder than near London.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS New Cases of Disease coming under Treatment

MANCHESTER.																	
Area in Statute Acres .....	Manchester Township 1,645 .....																
Population in 1861 .....	" " 185,050 .....																
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.	
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.		
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16
Small-pox .....	1	..	1	..	1	..	3	1	..	..	..	..	..	..	..	..	..
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	3	..	2	1	3	..	9	..	..	..	..	1	3	..	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	1	4	..	5	..	..	9	..	..	..	10	1	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	3	2	1	3	..	9	..	..	8	..	..	1	3	2	..	..
Dysentery .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Continued Fever.....	..	..	2	3	2	3	10	9	1	..	..	2	1	7	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	14	..	..	..	..	..	..	..
Rheumatism .....	1	1	1	1	6	1	11	3	1	33	1	..	1	..	..	..	..
Neuralgic Affections .....	..	..	..	1	..	..	1	..	..	17	..	..	..	..	2	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	10	..	17	..	..	1	..	..	..	..
Phthisis .....	..	..	..	1	3	..	4	5	1	17	1	2	4	..	7	..	..
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	8	19	17	4	11	13	72	13	..	37	2	3	8	5	10	..	..
Pleurisy and Pneumonia....	..	..	..	1	3	..	4	..	1	1	..	1	3	1	2	..	..
Skin Diseases.....	..	1	..	..	..	1	2	9	..	22	..	..	..	4	4	..	..
Dyspepsia .....	2	2	1	..	6	..	11	..	1	23	..	..	3	6	2	..	..
Accidents and diseases not classified.....	32	19	15	11	7	18	102	38	36	228	7	2	7	47	8	..	..
TOTAL .....	47	45	41	25	50	36	244	90	41	427	11	11	32	83	39	..	..

\* 1 Typhus, 1 Typhoid and 1 Febricula.

+ 1 Typhus.

‡ Typhus.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) „ J. LORIMER,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. C. H. BRADDON,  
(8) „ W. O. JONES,

(9) } Mr. S. M. BRADLEY,  
(10) } „ G. E. WALKER,  
(11) } „ T. M. JOHNSON,  
(12) }

(13) Mr. H. RUNCOR,  
(14) Dr. WHITEHEAD,  
(15) Mr. W. GOLLAN,  
(16) „ J. TEALE,



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 6th day of February, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON AND PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477. ....			.. 646. ...		508.		..... 2650.....			.....24,448 .....		
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739							
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Green-gate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
6	17	18	19	20	21	22	23	24	25	26	27	28					
.	..	..	..	..	..	..	1	..	..	..	..	..	5	19	Small-pox .....	..	
.	..	..	..	..	..	..	..	..	..	..	..	..	1	4	Chicken-pox .....	..	
.	..	5	..	..	..	..	1	..	1	..	..	3	10	29	Measles .....	..	
2	..	..	6	..	2	1	..	..	8	3	..	..	36	14	Scarlatina .....	4	
.	..	..	..	..	..	..	..	..	..	1	..	..	1	1	Diphtheria .....	..	
.	..	..	..	..	..	1	..	..	4	..	..	..	30	10	Whooping-cough ....	..	
.	..	..	..	..	..	..	..	..	1	..	..	..	1	1	Croup .....	..	
3	..	1	3	4	..	..	..	..	..	2	..	..	37	33	Diarrhoea .....	..	
.	..	..	..	..	..	..	..	..	..	..	2	..	3	8	Dysentery .....	..	
.	..	1	2	..	3	..	2	..	..	2	..	1	41	41	Continued Fever ....	4	
.	..	..	2	..	..	..	..	..	..	1	..	..	17	2	Erysipelas .....	1	
.	..	..	6	2	5	2	2	5	8	1	4	..	85	87	Rheumatism .....	1	
.	3	..	4	..	1	..	..	..	1	..	..	..	29	8	Neuralgic Affections ..	..	
.	1	..	3	..	..	..	..	..	..	..	1	3	37	30	Constitutional Syphilis	..	
.	..	..	13	..	..	1	..	..	1	..	3	..	59	44	Phthisis .....	9	
.	..	..	..	..	..	..	..	..	..	..	..	4	6	11	Insanity .....	1	
6	15	1	40	5	6	9	10	13	20	4	15	3	300	285	Bronchitis, Influenza, and Catarrh .....	17	
.	..	..	3	..	..	..	..	..	..	1	1	..	18	10	Pleurisy & Pneumonia.	1	
.	..	1	4	2	1	2	..	2	1	1	..	15	71	78	Skin Disease.....	..	
1	..	..	10	..	..	3	1	2	2	3	3	..	73	70	Dyspepsia .....	..	
4	16	7	51	..	9	10	8	11	26	..	46	24	698	783	Accidents and diseases not classified.....	14	
6	35	16	147	13	27	29	25	33	73	19	75	53	1558	1568	TOTAL.....	52	

‡ Typhoid.

|| Febricula.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
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(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
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(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	..	..	..	1	1	..	..	..	..	1	1
Measles .....	..	2	..	1	..	1	2	..	1	2	..	2	4
Whooping-cough .....	1	..	..	..	..	1	..	..	..	..	..	10	9
Scarlatina .....	4	3	..	3	1	7	1	1	2	11	1	34	14
Diarrhoea .....	..	1	..	2	3	..	..	..	2	..	..	8	6
Fever .....	1	1	a2	b2	..	1	d5	..	b1	a1	1	15	10
Diseases of the Lungs ..	15	10	..	11	..	4	3	..	6	12	3	64	52
Other causes .....	6	11	16	8	15	e5	e11	e6	7	9	9	103	118
TOTAL NO. OF DEATHS.	28	28	18	27	19	19	23	7	19	35	14	237	214
TOTAL NO. OF BIRTHS.	32	46	27	14	17	43	59	21	29	79	24	391	325

a Typhus.      b 1 Typhoid.      c 1 Inquest.      d 1 Typhus and 1 Continued.      e 3 Inquests.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL.	DISEASE.	4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL
32	28	12	72	..... Small-pox .....	46	33	30	109
19	9	11	39	..... Chicken-pox .....	13	3	16	32
33	46	26	105	..... Measles .....	43	38	60	131
94	85	28	207	..... Scarlatina .....	217	235	171	623
10	..	9	19	..... Diphtheria .....	2	2	3	7
43	97	80	220	.... Whooping-cough ....	68	82	85	235
2	1	4	7	..... Croup .....	2	7	3	12
384	353	397	1134	..... Diarrhoea .....	232	209	144	585
..	4	..	4	..... Dysentery .....	20	27	18	65
1	..	..	1	..... Cholera .....	..	..	..	..
32	26	13	71	..... Erysipelas .....	54	74	57	185
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
11	16	22	49	..... Insanity .....	31	51	35	127
770	1028	1241	3039	.. Bronchitis and Catarrh..	1126	1551	1615	4292
11	9	14	34	..... Pleurisy .....	47	94	75	216
17	14	29	60	..... Pneumonia .....	..	..	..	..
2	4	5	11	..... Carbuncle .....	..	..	..	..
3563	4014	3691	11268	{ Accidents, and all other Diseases. }	4674	5527	4724	14925
5024	5734	5582	16340	..... TOTAL .....	6575	7933	7036	21544

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY: Inches.      Wet Days.			Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	2.411	..... 14							
Eccles .....	1.725	..... 15							
Old Trafford..	1.521	..... 10							
Royton .....	1.475	..... 11							
Thelwall ....	1.483	..... 16							
Bowdon .....	1.462	..... 14							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	500ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			30.176	30.121	30.125	30.109	30.100	30.110	30.148
Highest .....			30.302	30.296	30.344	30.251	29.801	30.180	29.926
Lowest .....			29.804	29.820	29.868	29.792	29.350	29.722	29.448
Range .....			0.498	0.476	0.476	0.459	0.451	0.458	0.478
<b>Temperature.</b>									
Adopted Mean .....			40.6	40.5	40.0	39.3	36.8	38.9	38.1
Range for Week .....			..	24.8	30.0	24.8	31.2	24.6	26.6
Daily Range .....			..	6.5	11.3	8.1	10.3	7.7	9.1
Maximum in Shade .....			..	51.3	51.0	50.6	49.2	50.3	50.2
Minimum in Shade .....			30.0	26.5	21.0	25.8	18.0	25.7	23.6
Temperature of Dew Point .....			35.3	38.5	36.8	36.1	34.9	36.5	34.8
<b>Hygrometrical condition of the Atmosphere.</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.819	0.936	0.882	0.888	0.946	0.910	0.866
Prevailing Winds .....			.....	S,NW,SE.	SW,N	SW,NW	SW,NW	SW,NW	SW,NE
Rain .....			.....	1.318	0.984	0.962	1.145	1.076	1.224

February 6, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IV.] WEEK ENDING SATURDAY, FEBRUARY 13, 1864. [No. 185.

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#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending February 13th 1,780 new cases of disease occurred in connection with the Public Charitable Institutions and Poor Law Districts: in the two preceding weeks the respective numbers were 1,606 and 1,558.

In the 176 additional cases of disease which occurred last week we read the effects of the late severe weather; and, judging from the experience of the past, which goes to prove that about a fortnight usually intervenes between the invasion of cold weather and the time when it tells its full tale in the registers, we are probably justified in anticipating next week a still heavier list.

On turning to particular disorders we find the number of seizures from Bronchitis rose from 318 to 364. In respect to Consumption, on the other hand, there was only an increase of 3 cases, though the deaths at the Public Institutions amounted to 9 in place of 5, the number entered in the previous return.

Under Scarlet Fever we again note a decrease,—the respective totals for the two last weeks being 36 and 33.

There were again 30 cases of Whooping Cough; and 11, instead of 5, seizures from Small-pox. Thus it behoves the authorities to bear in mind that the latter disease, though lately slumbering, is by no means extinct.

Continued Fever is considerably less prevalent than it proved three weeks ago. At that time it attacked 56 persons, last week only 38, but of these 3 were cases of Typhus and 4 of Typhoid Fever.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the deaths rose from 237 to 276. Here again we observe the effect of the cold, and this is the more evident, inasmuch as the increase is chiefly observable in deaths occasioned by diseases of the chest,—amounting in fact under this heading alone to 31.

From Scarlet Fever there were 25 deaths, 9 less than in the week ending February 6th; from Fever 6; and, from Whooping Cough, 10.

According to the report of the Registrar General the deaths in London last week exceeded the average by nearly 200.

At Greenwich Observatory the mean temperature of the air was  $34.6^{\circ}$ , at Old Trafford it was  $30.4^{\circ}$ , at Bowdon  $31.7^{\circ}$ , and at Eccles  $32.0^{\circ}$ . The lowest recorded temperature noticed in our returns was at Royton where the thermometer fell to  $15.0^{\circ}$ , or 17 degrees below the freezing point. The range of temperature generally in the week was excessive, at Old Trafford amounting to  $37.8^{\circ}$ .

The atmosphere, generally proved remarkably moist; at Castleton Moor the degree of humidity was 96, complete saturation being represented by 100.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec

COMMITTEE ROOMS,

33, PAUL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment in 1861

MANCHESTER.																
Area in Statute Acres .....								Manchester Township 1,645 .....								
Population in 1861 .....								" " 185,050 .....								
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	2	..	2	..	4	1	1	..	..	1	..	..	..	..
Chicken-pox .....	..	..	..	..	3	..	3	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	2	..	1	4	..	7	..	..	..	..	1	2	3	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	1	..	..	5	2	..	8	..	..	..	..	..	..	4	5	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	5	1	..	6	1	13	..	..	6	..	..	..	4	1	1
Dysentery .....	..	..	..	..	..	1	1	..	..	2	..	..	..	..	..	..
Continued Fever.....	..	..	2	*3	..	+4	9	11	..	..	..	1	..	7	..	1
Erysipelas .....	..	..	1	..	..	..	1	..	..	3	..	..	..	..	..	..
Rheumatism .....	..	5	3	..	2	..	10	4	2	40	3	..	1	..	..	1
Neuralgic Affections .....	..	..	..	1	..	..	1	..	1	14	..	..	1	..	2	..
Constitutional Syphilis .....	1	..	..	..	1	..	2	10	1	15	..	..	..	2	3	..
Phthisis .....	..	..	3	..	4	..	7	4	..	24	..	..	1	..	2	1
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	5	34	16	14	11	17	97	16	..	50	11	6	2	6	9	3
Pleurisy and Pneumonia....	3	1	..	..	3	..	7	..	..	3	1	..	..	..	1	..
Skin Diseases.....	..	2	..	1	..	..	3	10	..	37	..	..	3	2	11	..
Dyspepsia .....	..	1	..	2	5	2	10	..	..	40	1	..	1	4	5	..
Accidents and diseases not } classified..... }	26	12	16	18	7	17	96	40	40	333	4	12	11	46	5	2
TOTAL .....	36	62	41	45	51	42	280	98	45	567	20	21	22	78	45	9

\* 1 Typhus, and 2 Typhoid. + 2 Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

(4) „ J. LORIMER,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. C. H. BRADDON,

(8) „ W. O. JONES,
- (9) } Mr. S. M. BRADLEY,

(10) } „ G. E. WALKER,

(11) } „ T. M. JOHNSON,

(12) }
- (13) Mr. H. RUNCORN

(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAND

(16) „ J. TEALE,



# SANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 13th day of February, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK.		PENDLETON AND PENDLEBURY.					DEATHS.
... 1,329 .....				.... 477. ....			... 646. ...		508.		..... 2650.....			Area in Statute Acres.		
... 70,967. ....				.. 68,209. ...			.. 44,850 ..		21739		..... 24,448 .....			Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23										24
..	..	..	..	..	..	1	..	..	..	..	2	11	25	Small-pox .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	3	4	Chicken-pox .....	..	
..	3	1	..	..	..	1	..	..	..	..	..	6	29	Measles .....	1	
..	..	6	..	..	4	..	1	3	1	2	..	33	16	Scarlatina .....	1	
..	..	..	..	..	..	..	..	..	2	..	..	2	2	Diphtheria .....	1	
..	..	3	..	1	..	4	1	3	1	..	..	30	10	Whooping-cough ....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..	
..	..	7	3	1	1	..	..	..	2	1	..	41	31	Diarrhoea .....	..	
..	..	1	..	..	..	..	..	..	..	..	..	4	7	Dysentery .....	1	
..	..	..	..	†1	1	..	1	1	2	3	..	38	47	Continued Fever ....	6	
..	..	2	..	..	1	..	..	..	..	..	..	7	3	Erysipelas .....	..	
..	2	3	2	1	3	2	5	..	1	3	3	86	83	Rheumatism .....	..	
..	1	2	..	1	..	..	..	1	..	..	..	24	11	Neuralgic Affections ..	..	
1	..	4	..	..	..	..	..	..	..	..	2	40	33	Constitutional Syphilis	..	
3	1	7	..	..	..	1	..	1	1	2	1	56	44	Phthisis .....	8	
..	..	..	..	..	..	..	..	..	..	..	4	6	15	Insanity .....	1	
11	5	27	4	5	13	10	21	19	3	16	3	347	312	Bronchitis, Influenza, and Catarrh .....	18	
..	..	..	..	..	..	..	..	1	2	..	2	17	20	Pleurisy & Pneumonia.	1	
1	..	5	2	..	4	..	3	1	..	..	10	92	59	Skin Disease.....	..	
..	..	8	..	1	7	1	6	1	..	3	..	90	82	Dyspepsia .....	..	
8	9	63	..	11	10	7	5	44	10	47	32	847	766	Accidents and diseases not classified.....	25	
24	21	144	11	22	44	27	43	75	25	77	59	1780	1601	TOTAL.....	67	

† Febricula.

|| Typhoid.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) " J. O. BRADBURY,  
(20) " W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) " JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) " J. V. L. WESTMACOTT,  
(27) " JOHN HOLDEN,  
(28) " J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	1	..	..	..	1	..	..	..	..	3	2
Measles .....	..	1	..	..	1	1	1	..	..	6	..	1	6
Whooping-cough.....	..	1	..	..	1	1	1	..	..	..	..	10	7
Scarlatina .....	3	..	..	..	1	2	6	..	..	5	1	25	19
Diarrhoea .....	1	1	..	..	1	..	..	1	1	..	..	5	2
Fever .....	..	2	a4	..	..	..	..	..	..	..	..	6	8
Diseases of the Lungs ..	20	12	4	3	..	10	3	..	9	21	13	95	60
Other causes.....	8	7	20	19	11	b15	15	7	8	18	3	131	131
TOTAL NO. OF DEATHS.	33	23	29	22	14	23	27	8	25	50	17	276	235
TOTAL NO. OF BIRTHS.	43	39	12	13	16	43	14	21	30	61	27	319	356

a Typhus.

b 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL.	DISEASE.	4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL
32	28	12	72	.....Small-pox.....	46	33	30	109
19	9	11	39	..... Chicken-pox .....	13	3	16	32
33	46	26	105	..... Measles .....	43	38	60	131
94	85	23	207	.....Scarlatina.....	217	235	171	623
10	..	9	19	..... Diphtheria .....	2	2	3	7
43	97	80	220	.... Whooping-cough ....	63	82	85	235
2	1	4	7	.....Croup.....	2	7	3	12
384	353	397	1134	.....Diarrhoea.....	232	209	144	585
..	4	..	4	.....Dysentery.....	20	27	18	65
1	..	..	1	..... Cholera .....	..	..	..	..
32	26	13	71	.....Erysipelas.....	54	74	57	185
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
11	16	22	49	..... Insanity .....	31	51	35	127
770	1028	1241	3039	. Bronchitis and Catarrh..	1126	1551	1615	4292
11	9	14	34	..... Pleurisy .....	47	94	75	216
17	14	29	60	..... Pneumonia .....	..	..	..	..
2	4	5	11	..... Carbuncle .....	..	..	..	..
3563	4014	3691	11268	{ Accidents, and all other Diseases. }	4674	5527	4724	14925
5024	5734	5582	16340	..... TOTAL .....	6575	7933	7036	21544

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN JANUARY:				Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T.MACKERRETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches.	Wet Days.									
Castleton Moor 2.411	.....	14								
Eccles..... 1.725	.....	15								
Old Trafford.. 1.521	.....	10								
Royton ..... 1.475	.....	11								
Thelwall .... 1.483	.....	16								
Bowdon .. 1.462	.....	14								
Height of barometer cistern above sea level				130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	500 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level				29.636	29.714	29.682	29.692	29.683	29.687	29.679
Highest.....	Unreduced {			29.924	30.036	29.988	29.913	29.446	29.816	29.564
Lowest .....				29.056	29.12	29.140	29.112	28.662	29.006	28.769
Range .....				0.868	0.814	0.848	0.801	0.784	0.750	0.795
Temperature.										
Adopted Mean .....				34.1	30.4	32.6	32.0	31.4	31.7	31.9
Range for Week .....				..	37.8	37.6	37.1	37.3	35.5	30.9
Daily Range .....				..	17.5	14.1	14.9	14.0	13.3	12.9
Maximum in Shade .....				..	53.8	54.3	54.1	52.3	53.4	48.0
Minimum in Shade .....				25.0	16.0	17.8	17.0	15.0	17.9	17.1
Temperature of Dew Point .....				31.9	28.6	30.3	30.0	28.6	28.9	30.6
Hygrometrical condition of the Atmosphere				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)				0.920	0.924	0.947	0.920	0.934	0.918	0.960
Prevailing Winds .....					S,NW	S,NW	N,E	S,NE	SW,NE	E,NE,SW
Rain .....					0.700	0.636	0.676	0.810	0.862	0.851

February 13, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, FEBRUARY 20, 1864. [No. 186.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

Last week, as might have been anticipated, from the continued prevalence of severe weather, a still further increase was observable in the new cases of disease which occurred in connection with the Public Charitable Institutions and Poor Law Districts. The total number amounted to 1,820, or 40 more than in the previous week, and 300 more than in the corresponding week of last year. The increase is accounted for under diseases connected with the respiratory organs, the seizures under this heading amounting to 403, or 39 more than in the preceding week.

On turning to the zymotic diseases we observe an increase of 7 under Scarlet Fever, of 33 under Diarrhoea, of 5 under Continued Fever, and of 3 under Measles. Whooping Cough proved less prevalent than in the week terminating February 13th, the respective numbers being 30 and 24. Thus, though this disease is connected with the respiratory organs, we still do not find it intensified by the cold.

Under Consumption there is an increase of 24 cases.

Only 2 of the fever patients are said to have experienced attacks of Typhus.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 276 deaths were registered in Manchester and Salford. Thus the total exactly corresponded with the number recorded in the previous return, though in both the increase over the corresponding weeks of last year was very considerable.

The births again proved very numerous, amounting to 356.

Of the deaths 74 arose from diseases connected with the chest, and 29 from Scarlet Fever. In the previous week the latter disease contributed 25. Thus, both in our disease and death column, we find an increase under this disorder. To its fatality in Hulme we have repeatedly directed attention; such again proved to be the case last week, for of the 29 deaths 12 were registered in this district.

In London, according to the report of the Registrar General, the mortality proved heavier than in any preceding week since the commencement of the year, exceeding in fact the estimated amount by 177. Here again we read the effects of the cold and sudden alternation of temperature. The popular belief in the healthiness of frosty weather is certainly not borne out when tested by the statistics of either death or disease.

At the Royal Observatory, Greenwich, the mean temperature of the air for the week was 37·2°, at Old Trafford it was 36·7°, at Bowdon 37·0°, at Eccles 37·5°, and at Thelwall 38·2°. The lowest reading of the thermometer near London was 23·8°; at none of the Manchester stations did the frost prove equally keen.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....		Manchester Township 1,645 .....													
Population in 1861 .....		" " 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
							Total of Districts.	ROYAL INFIRMARY.					CHILDREN		
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's		Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	1	..	..	..	..	1	..	2	..	1	..	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	2	..	..	..	..	1	3	..	..	..	..	..	1	1	..
Scarlatina .....	..	3	1	1	1	..	6	..	..	..	..	4	1	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Whooping-cough .....	..	..	..	..	2	..	2	..	..	4	..	..	..	10	3
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	3	..	2	4	..	9	..	..	31	..	..	..	8	7
Dysentery .....	..	1	..	..	..	..	1	..	..	2	..	..	..	..	..
Continued Fever.....	..	..	4	..	..	*5	9	10	3	..	..	3	..	10	..
Erysipelas .....	..	..	..	1	1	2	4	..	..	8	..	1	..	..	..
Rheumatism .....	3	4	3	1	5	..	16	6	1	29	..	1	..	2	..
Neuralgic Affections .....	..	..	..	1	..	..	1	..	..	15	..	..	..	..	4
Constitutional Syphilis .....	..	..	..	..	..	..	..	11	..	7	1	..	4	1	..
Phthisis .....	3	3	1	1	3	..	11	4	1	36	1	5	2	1	3
Insanity .....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	6	25	13	4	9	18	75	27	3	75	1	11	8	10	11
Pleurisy and Pneumonia....	1	..	..	..	3	..	4	..	..	3	..	1	1	1	1
Skin Diseases.....	..	4	..	2	..	2	8	11	..	18	..	..	..	1	9
Dyspepsia .....	1	1	1	1	5	..	9	..	..	27	..	..	1	2	12
Accidents and diseases not classified.....	27	14	14	10	7	26	98	54	34	261	12	11	6	48	11
TOTAL .....	43	59	37	24	40	55	258	126	44	516	16	37	26	97	61

\* 2 Typhus.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.

2) „ J. BROADBENT,

3) „ JOHN ARMSTRONG,

4) „ J. LORIMER,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. C. H. BRADDON,

(8) „ GEORGE REED,
- 9) „

10) } Mr. S. M. BRADLEY,

(11) } „ G. E. WALKER,

(12) } „ T. M. JOHNSON,
- (13) Mr. H. RUNCO,

(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAN,

(16) „ J. TEALE,



SANITARY ASSOCIATION.

TIONS OF MANCHESTER AND ADJOINING DISTRICTS.

e Week ending the 20th day of February, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
..... 1,329 .....					..... 477. ....			... 646. ...		508.	..... 2650.....				Area in Statute Acres.		
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739	.....24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
6	17	18	19	20	21	22	23	24	25	26	27	28					
..	..	..	..	..	..	2	1	..	..	..	..	1	9	17	Small-pox .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Chicken-pox .....	..	
..	..	2	..	..	..	..	1	1	..	..	..	..	9	15	Measles .....	..	
4	..	..	9	..	2	..	5	..	4	2	1	..	40	16	Scarlatina .....	4	
..	..	..	..	..	..	..	..	..	..	1	..	..	2	..	Diphtheria .....	..	
..	..	..	2	..	..	..	1	..	..	1	1	..	24	10	Whooping-cough ....	3	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	Croup .....	..	
2	..	..	..	4	3	2	1	2	1	1	1	..	73	23	Diarrhoea .....	..	
1	1	..	..	..	..	..	..	..	..	..	..	..	5	6	Dysentery .....	..	
..	..	1	3	..	†1	..	2	..	..	1	..	..	43	45	Continued Fever ....	2	
..	..	..	1	..	..	..	..	..	..	1	..	2	17	2	Erysipelas .....	1	
..	1	2	6	2	2	2	4	2	4	1	3	..	86	53	Rheumatism .....	..	
1	1	..	3	..	..	..	..	..	1	..	1	..	27	24	Neuralgic Affections ..	..	
..	1	..	3	..	..	..	..	..	..	..	..	1	29	29	Constitutional Syphilis	1	
..	2	..	6	..	..	1	2	1	1	1	1	..	79	51	Phthisis .....	8	
..	..	..	..	..	..	..	..	1	..	..	..	..	5	8	Insanity .....	..	
1	22	8	36	5	9	19	6	12	16	3	13	5	389	327	Bronchitis, Influenza, and Catarrh.....	19	
..	..	..	1	..	1	..	..	..	..	..	..	1	14	10	Pleurisy & Pneumonia.	1	
1	..	3	10	1	..	5	..	2	1	2	..	10	82	87	Skin Disease.....	..	
1	..	..	10	..	2	2	2	4	3	1	3	1	81	85	Dyspepsia .....	..	
8	19	8	79	..	7	8	7	16	32	17	45	24	806	708	Accidents and diseases not classified.....	29	
9	47	24	169	12	27	41	32	41	63	32	69	45	1820	1524	TOTAL.....	68	

+ Febricula.

s indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	..	..	..	..	d2	1	3	8
Measles.....	..	..	..	..	..	..	3	..	..	1	..	4	4
Whooping-cough.....	3	1	..	..	..	..	2	..	1	2	..	9	5
Scarlatina.....	3	3	1	3	..	3	..	1	1	12	2	29	18
Diarrhoea.....	..	1	1	..	2	..	..	..	..	..	..	4	4
Fever.....	1	..	a2	..	b1	..	..	..	2	..	1	7	6
Diseases of the Lungs ..	12	10	1	7	..	9	14	..	6	10	5	74	68
Other causes.....	13	14	19	7	19	c8	13	15	11	24	3	146	132
TOTAL NO. OF DEATHS.	32	29	24	17	22	20	32	16	21	51	12	276	245
TOTAL NO. OF BIRTHS.	43	46	21	16	20	38	35	25	25	65	22	356	312

a Typhus. b Typhoid. c 1 Inquest. d 2 Males, 1 aged 3 years, the other 2 months.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Office of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL.	DISEASE.	4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	Weeks ending 30th. Jan.	TOTAL
32	28	12	72	..... Small-pox.....	46	33	30	109
19	9	11	39	..... Chicken-pox .....	13	3	16	32
33	46	26	105	..... Measles .....	43	38	60	131
94	85	28	207	..... Scarlatina.....	217	235	171	623
10	..	9	19	..... Diphtheria .....	2	2	3	7
43	97	80	220	.... Whooping-cough ....	68	82	85	235
2	1	4	7	..... Croup.....	2	7	3	12
384	353	397	1134	..... Diarrhoea .....	232	209	144	585
..	4	..	4	..... Dysentery.....	20	27	18	65
1	..	..	1	..... Cholera .....	..	..	..	..
32	26	13	71	..... Erysipelas.....	54	74	57	185
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
11	16	22	49	..... Insanity .....	31	51	35	127
770	1028	1241	3039	.. Bronchitis and Catarrh..	1126	1551	1615	4292
11	9	14	34	..... Pleurisy .....	47	94	75	216
17	14	29	60	..... Pneumonia .....	..	..	..	..
2	4	5	11	..... Carbuncle.....	..	..	..	..
3563	4014	3691	11268	{ Accidents, and all other Diseases. }	4674	5527	4724	14925
5024	5734	5582	16340	..... TOTAL .....	6575	7933	7036	21544

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN JANUARY:			Royal Infirmary, W.O. JONES, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.							
Castleton Moor	2.411	..... 14							
Eccles.....	1.725	..... 15							
Old Trafford..	1.521	..... 10							
Royton .....	1.475	..... 11							
Thelwall ....	1.483	..... 16							
Bowdon ..	1.462	..... 14							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	50 0 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			30.094	30.080	30.130	30.067	30.063	30.067	30.094
Highest.....			30.402	30.378	30.422	30.372	29.900	30.268	29.992
Lowest .....			29.601	29.610	29.642	29.578	29.098	29.494	29.226
Range .....			0.801	0.777	0.780	0.794	0.802	0.774	0.766
<b>Temperature.</b>									
Adopted Mean .....			39.1	36.7	38.2	37.5	35.6	37.1	37.1
Range for Week .....			19.2	29.7	29.0	28.0	27.0	28.0	27.7
Daily Range .....			..	12.1	8.9	10.1	10.1	8.7	10.2
Maximum in Shade .....			48.2	56.0	54.7	53.7	51.2	54.0	52.2
Minimum in Shade .....			29.0	26.3	25.7	25.7	24.2	26.0	24.5
Temperature of Dew Point .....			34.3	34.1	34.0	34.0	34.1	34.0	33.7
<b>Hygrometrical condition of the Atmosphere.</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.840	0.908	0.842	0.870	0.913	0.879	0.872
Prevailing Winds .....			.....	SW, NE	SW, E	SW, NE	SW, NE	SW, NE	SW, NE
Rain .....			.....	0.153	0.180	0.199	0.180	0.234	0.187

February 20, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, FEBRUARY 27, 1864. [No. 187.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating February 27th, 1,672 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions: in the two preceding weeks the respective numbers were 1,780 and 1,820.

The more important zymotic diseases all proved less general than in the week which preceded. Thus, Scarlet Fever contributed 24 instead of 40 cases, Whooping Cough 16 instead of 9, Diarrhoea 56 instead of 73, Continued Fever 37 instead of 43, and Measles 1 instead of 9. Of the cases of Continued Fever 3 proved examples of Typhus, 2 of Typhoid, and 2 of Puerperal Fever; the two latter, and one of the cases of Typhus, were admitted as in-patients of the Royal Infirmary.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The deaths last week amounted to 271: in each of the two preceding weeks the number was 276. Thus, during the last three weeks, the variation in the death-rate has been remarkably slight. The mortality has nevertheless been very high, considerably exceeding that of the corresponding weeks in the year 1863. Of the deaths 61 arose from diseases connected with the chest, and 30 from Scarlet Fever: in the preceding week the respective numbers were 74 and 29. 14 children died of Whooping Cough: the disease, though most marked in the Regent Road and Hulme Districts, still appears pretty generally diffused throughout the various quarters of the town.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 210. There, also, Bronchial affections appear to have been developed by the sudden alternations of temperature to an unusual extent. It is stated in the report that an infant, aged three weeks, was poisoned by a lozenge containing the forty-eighth part of a grain of morphia. As the morphia lozenges usually sold contain twice that quantity (one twenty-fourth of a grain) the danger of administering them to young children may readily be inferred.

An analysis of water supplied by London Companies is annexed to the report. It contrasts most unfavourably with that of the Manchester water supply. Thus, a gallon of the latter contained 3.33 grains of foreign matters in solution, while the same quantity of the former yielded from about 20 to 27 grains.

At the Royal Observatory, Greenwich, the mean temperature of the air was 33.0°, at Old Trafford it was 33.4°, and at Bowdon 32.1°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALT

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	1	..	..	..	..	1	2	..	3	..	..	2	1	..	..
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	3	..	1	1	5	..	..	..	..	2	..	..	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	2	..	..	1	2	..	5	..	..	..	..	..	..	6	2
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	4	..	1	5	..	11	..	..	15	..	..	..	9	2
Dysentery .....	..	..	..	..	..	1	1	..	..	4	..	..	..	1	..
Continued Fever.....	1	*1	1	*2	..	2	7	4	†3	..	‡1	3	1	10	..
Erysipelas .....	..	1	1	..	1	..	3	..	..	7	..	..	..	..	..
Rheumatism .....	..	5	..	2	2	..	10	5	1	31	..	1	..	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	10	1	..	..	..	2
Constitutional Syphilis .....	..	..	..	..	..	..	..	9	..	4	..	..	2	2	2
Phthisis .....	..	..	..	3	3	..	6	2	4	29	1	6	..	1	2
Insanity .....	1	..	..	..	..	..	1	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	6	27	10	8	9	14	74	9	1	65	1	9	12	6	9
Pleurisy and Pneumonia....	..	1	..	3	4	..	8	2	..	..	3	1	..	..	2
Skin Diseases.....	1	1	..	..	..	1	3	6	..	23	..	..	..	2	10
Dyspepsia .....	..	3	..	2	7	..	12	..	..	30	1	..	..	3	2
Accidents and diseases not } classified..... }	30	11	14	16	11	14	96	19	34	284	12	5	10	45	10
TOTAL .....	43	51	29	38	47	34	245	60	46	502	20	29	26	85	45

\* Febricula.

+ 2 Typhoid and 1 Typhus.

‡ Typhus.

Medical Officers to whom the Associates

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) „ J. LORIMER,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
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(9) }  
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(11) } „ G. E. WALKER,  
(12) } „ T. M. JOHNSON,

(13) Mr. H. RUNC  
(14) Dr. WHITEH  
(15) Mr. W. GOLL  
(16) „ J. TEALL



# SANITARY ASSOCIATION.

## IONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 27th day of February, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON AND PENDLEBURY.					DEATHS.
..... 1,329 .....					..... 477. ....			.. 646. ...		508.		..... 2650.....			Area in Statute Acres.		
..... 70,967. ....					.. 68,209. ...			.. 44,850. ...		21739		..... 24,448 .....			Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Green-gate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.		
6	17	18	19	20	21	22	23	24	25	26	27	28					
..	..	..	..	..	..	..	1	..	..	..	..	..	9	20	Small-pox .....	2	
..	..	..	..	..	..	..	..	..	..	1	..	..	2	..	Chicken-pox .....	..	
..	..	1	..	..	..	..	..	..	..	..	..	..	1	21	Measles .....	..	
..	1	..	6	..	1	2	..	3	1	..	..	1	24	14	Scarlatina .....	2	
..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	Diphtheria .....	..	
..	..	..	3	..	..	..	..	..	..	..	..	..	16	5	Whooping-cough ....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
..	..	1	1	5	2	3	..	3	2	..	..	..	56	39	Diarrhœa .....	..	
1	..	..	..	..	..	..	..	..	..	..	1	..	8	7	Dysentery .....	..	
..	..	1	3	..	..	1	..	1	..	1	..	..	37	41	Continued Fever ....	2	
..	..	1	..	..	1	1	..	..	..	1	1	1	16	7	Erysipelas .....	..	
1	2	..	5	4	1	7	2	3	3	3	4	..	84	78	Rheumatism .....	..	
..	..	..	..	..	..	1	..	..	1	..	1	..	16	28	Neuralgic Affections ..	..	
..	..	..	5	..	..	..	..	..	1	2	1	7	37	31	Constitutional Syphilis	..	
..	..	1	8	..	..	2	..	1	2	..	2	2	69	45	Phthisis .....	8	
..	..	..	..	..	..	..	..	1	..	..	..	3	9	7	Insanity .....	1	
0	9	1	41	6	18	8	12	22	15	4	17	5	354	321	Bronchitis, Influenza, and Catarrh.....	14	
..	..	..	4	..	..	..	..	..	..	..	..	1	21	16	Pleurisy & Pneumonia.	5	
1	1	..	5	..	..	2	..	1	1	..	..	22	77	67	Skin Disease.....	..	
2	1	..	13	1	..	3	3	8	4	..	4	4	91	73	Dyspepsia .....	1	
3	4	9	50	..	6	14	4	8	34	8	42	36	744	776	Accidents and diseases not classified.....	29	
8	18	15	144	16	29	44	22	51	64	21	73	82	1672	1597	TOTAL.....	65	

1 Typhus and 2 Puerperal.

is indebted for the annexed Returns.

- (17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallswoth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	1	..	..	..	..	1	01	3	1
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	6
Whooping-cough.....	1	2	..	1	1	2	3	1	..	3	..	14	3
Scarlatina .....	3	1	1	4	4	5	..	..	4	7	1	30	11
Diarrhoea .....	1	..	..	2	..	..	..	..	..	..	..	3	3
Fever .....	..	1	..	..	1	2	1	01	..	1	..	7	8
Diseases of the Lungs ..	13	10	1	7	..	6	2	..	7	13	2	61	77
Other causes.....	12	11	41	11	12	9	17	8	2	22	8	153	109
TOTAL NO. OF DEATHS.	30	25	43	25	19	24	23	10	13	47	12	271	218
TOTAL NO. OF BIRTHS.	52	29	24	22	19	36	9	32	33	60	17	332	341

a Typhus. b aged 6 years, not vaceinated

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL.	DISEASE.	4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	Weeks ending 30th. Jan.	TOTAL
32	28	12	72	.....Small-pox.....	46	33	30	109
19	9	11	39	..... Chicken-pox .....	13	3	16	32
33	46	26	105	..... Measles .....	43	38	60	131
94	85	23	207	.....Scarlatina.....	217	235	171	623
10	..	9	19	..... Diphtheria .....	2	2	3	7
43	97	80	220	.... Whooping-cough ....	68	82	85	235
2	1	4	7	.....Croup.....	2	7	3	12
384	353	397	1134	.....Diarrhoea.....	232	209	144	585
..	4	..	4	.....Dysentery.....	20	27	18	65
1	..	..	1	..... Cholera .....	..	..	..	..
32	26	13	71	.....Erysipelas.....	54	74	57	185
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
11	16	22	49	..... Insanity .....	31	51	35	127
770	1028	1241	3039	.Bronchitis and Catarrh..	1126	1551	1615	4292
11	9	14	34	..... Pleurisy .....	47	94	75	216
17	14	29	60	..... Pneumonia .....				
2	4	5	11	..... Carbuncle .....	..	..	..	..
3563	4014	3691	11268	{ Accidents, and all other Diseases. }	4674	5527	4724	14925
5024	5734	5582	16340	..... TOTAL .....	6575	7933	7036	21544

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN JANUARY:	Royal Infirmary, Geo. REED, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches. Wet Days.							
Castleton Moor 2.411 .....	14	..	..	..	..	..	..
Eccles..... 1.725 .....	15	..	..	..	..	..	..
Old Trafford.. 1.521 .....	10	..	..	..	..	..	..
Royton ..... 1.475 .....	11	..	..	..	..	..	..
Thelwall .... 1.483 .....	16	..	..	..	..	..	..
Bowdon .. 1.462 .....	14	..	..	..	..	..	..
Height of barometer cistern above sea level	130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	500ft.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level	29.960	29.959	29.936	29.944	29.946	29.943	29.926
Highest.....	29.941	29.963	30.014	29.944	29.922	29.858	29.630
Lowest .....	29.703	29.608	29.662	29.588	29.154	29.512	29.272
Range .....	0.241	0.355	0.352	0.356	0.368	0.346	0.358
Temperature.							
Adopted Mean .....	34.6	33.4	32.4	32.9	32.3	32.1	32.4
Range for Week .....	..	15.4	17.2	17.0	15.5	15.5	18.3
Daily Range.....	..	11.7	9.4	10.4	8.8	8.0	8.0
Maximum in Shade .....	..	41.4	39.0	39.9	40.0	39.0	40.3
Minimum in Shade .....	28.0	26.0	21.8	22.9	21.5	23.5	22.0
Temperature of Dew Point .....	31.2	29.7	29.6	29.5	30.6	29.5	31.2
Hygrometrical condition of the Atmosphere	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)	0.952	0.864	0.888	0.889	0.933	0.895	0.952
Prevailing Winds .....	..	NE	NE	NE	NE	E,NE	NE
Rain .....	..	0.336	0.345	0.361	0.150	0.325	0.312

February 27, 1861.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, MARCH 5, 1864. [No. 188.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating March 5th, 1,609 new cases of disease occurred in connection with the Public Charitable Institutions and Poor Law Districts: in the two preceding weeks the respective numbers were 1,672 and 1,780.

As the season advances the number of new cases of Bronchitis and kindred affections of the chest is slowly though steadily decreasing. Thus the applications for relief from diseases of this class, which a fortnight ago amounted to 403, last week fell to 363.

Several of the zymotic diseases proved more prevalent than in the preceding week; thus 37 instead of 24 persons experienced attacks of Scarlet Fever.

Ten seizures from Small-pox were recorded in the week; the disease, therefore, would appear by no means extinct, and no efforts should be spared in the encouraging and enforcing of vaccination.

There were 37 cases of Continued Fever, of which no fewer than 7 occurred in the Market Street District. Dr. Robert Paton directs attention to the condition of the passages, Nos. 1, 2, and 3, Gun Street, Ancoats, situated within the limits of this district. It is impossible to doubt but that the sanitary requirements of these localities, now that fever is rife there, will speedily be looked to.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the deaths registered in the eleven districts amounted to 289, or 18 more than in the previous week. This increase was not proportionately equal to that recorded in the last report of the Registrar General of the deaths in London. The deaths there exceeded the estimated amount by 346. Thus the state of the public health, generally, throughout the country is by no means satisfactory.

From Scarlet Fever there were 8 fewer deaths than in the preceding week. This decrease might have been anticipated, from the diminished number of cases which we last week had occasion to record.

At the Royal Observatory, Greenwich, the mean temperature of the air was 40·9°, at Old Trafford it was 40·0°, and at Eccles 38·6°; thus the difference in the mean was but slight. It is probable, however, that in London the weather proved considerably more trying to invalids than in this neighbourhood, owing to the more marked alternations of temperature. Thus the range for the week, in the Metropolis, amounted to 28·6°; in Eccles it was only 16·0°, in Bowdon 16·2°, and at Old Trafford 20·8°. Further, at none of the Manchester stations did the *daily* range exceed 11·2°; at Greenwich, on Tuesday the 1st, it amounted to 21·2°, on Wednesday to 18·4°, and on Friday to 17·4°. To these more sudden alternations of temperature the heavier mortality which occurred in London may probably be attributed.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	1	..	..	1	..	..	2	2	..	1	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	3	3	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	1	1	3	..	5	..	..	..	..	3	5	2	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	5	..	5	..	..	2	..	..	..	3	3
Croup .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Diarrhœa.....	2	5	..	..	4	4	15	..	..	1	..	..	..	3	7
Dysentery .....	..	1	..	..	..	..	1	..	..	1	..	..	..	..	..
Continued Fever.....	..	..	..	*7	1	†2	10	3	‡1	..	‡1	..	..	12	..
Erysipelas .....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Rheumatism .....	1	3	2	2	5	2	15	4	2	7	4	1	4	..	3
Neuralgic Affections .....	..	1	1	..	..	..	2	..	..	7	..	..	..	..	1
Constitutional Syphilis .....	..	1	..	..	..	..	1	16	..	4	..	..	..	..	..
Phthisis .....	..	..	..	..	4	2	6	4	..	20	3	2	2	..	5
Insanity .....	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	4	29	13	10	8	11	75	16	2	66	1	4	5	15	18
Pleurisy and Pneumonia....	1	..	..	..	2	..	3	..	..	..	1	..	1	..	1
Skin Diseases.....	1	2	..	2	..	..	5	11	..	13	..	..	..	3	12
Dyspepsia .....	..	4	1	2	..	..	7	..	..	19	..	..	1	2	4
Accidents and diseases not classified.....	31	17	15	9	10	11	93	41	29	227	8	13	4	56	11
TOTAL .....	42	63	33	34	43	35	250	101	34	368	18	23	22	96	67

\* 6 Febricula and 1 Typhoid

† 1 Typhus.

‡ Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) „ J. LORIMER,

- (5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. C. H. BRADDON,  
(8) „ GEORGE REED,

- (9) } Mr. S. M. BRADLEY,  
(10) } „ ALFRED GOLSON,  
(11) } „ G. E. WALKER,  
(12) }

- (13) Mr. H. RUNCO  
(14) Dr. WHITEHEAD  
(15) Mr. W. GOLLA  
(16) „ J. TEALE.



# SANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 5th day of March, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.					
... 1,329 .....				.... 477. ....			.. 646. ...		508.	..... 2650.....			Area in Statute Acres.		
... 70,967. ....				... 68,209. ...			.. 44,850..		21739	..... 24,448 .....			Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	1	..	1	..	..	1	..	1	..	..	10	45	Small-pox .....	4
..	..	..	..	..	1	..	..	..	..	..	..	1	1	Chicken-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	3	18	Measles .....	..
2	..	6	..	2	2	1	1	4	..	2	..	37	22	Scarlatina .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..
..	..	..	..	..	..	1	..	..	..	..	..	14	20	Whooping-cough ....	..
..	..	..	..	..	..	..	..	1	..	..	..	2	..	Croup .....	..
..	..	..	3	..	2	1	2	..	4	..	..	41	40	Diarrhoea .....	1
..	..	..	..	..	..	..	..	..	..	1	..	3	12	Dysentery .....	..
..	2	1	..	2	..	..	..	1	2	..	1	38	30	Continued Fever ....	1
..	..	2	..	..	..	..	..	..	..	1	1	5	8	Erysipelas .....	..
..	..	7	1	2	3	1	1	2	3	3	1	65	84	Rheumatism .....	..
..	..	..	..	..	..	..	..	..	2	..	..	12	21	Neuralgic Affections ..	..
..	1	4	..	..	..	..	..	..	1	1	5	35	21	Constitutional Syphilis	..
..	..	10	..	2	..	..	..	1	1	2	..	58	69	Phthisis .....	8
..	3	..	..	..	..	..	1	1	..	..	6	15	11	Insanity .....	..
14	1	31	5	11	18	10	13	12	6	15	3	350	360	Bronchitis, Influenza, and Catarrh .....	19
..	..	2	..	..	..	..	..	2	..	2	1	13	31	Pleurisy & Pneumonia.	1
1	1	3	2	1	2	..	..	..	1	1	24	80	89	Skin Disease.....	..
..	..	13	1	1	11	2	2	2	6	3	2	77	88	Dyspepsia .....	..
13	4	97	..	10	8	4	10	45	..	41	28	750	835	Accidents and diseases not classified.....	21
30	13	177	12	32	47	20	31	71	27	72	72	1609	1807	TOTAL.....	58

‡ Febricula.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Lipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	1	..	..	1	..	..	..	..	..	1	3	..
Measles.....	..	..	..	..	1	..	..	..	..	1	..	1	12
Whooping-cough.....	..	3	..	1	2	..	2	..	1	1	2	12	5
Scarlatina.....	2	3	1	..	2	2	1	2	2	4	3	22	8
Diarrhoea.....	..	..	..	..	..	1	1	..	..	..	..	2	2
Fever.....	2	1	a2	..	..	3	..	1	c1	2	d1	13	10
Diseases of the Lungs ..	12	17	2	3	..	7	3	..	11	15	7	77	65
Other causes.....	17	17	25	10	21	b9	b18	9	13	16	4	159	126
TOTAL NO. OF DEATHS.	33	42	30	14	27	22	25	12	23	38	18	289	228
TOTAL NO. OF BIRTHS.	40	30	19	26	13	30	22	29	26	67	22	329	334

a Typhus. b 3 Inquests. c Gastrie, aged 6 years. d Gastrie, aged 54 years.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL.	DISEASE.	4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	Weeks ending 30th. Jan.	TOTAL
32	28	12	72	..... Small-pox.....	46	33	30	109
19	9	11	39	..... Chicken-pox.....	13	3	16	32
33	46	26	105	..... Measles.....	43	38	60	131
94	85	23	207	..... Scarlatina.....	217	235	171	623
10	..	9	19	..... Diphtheria.....	2	2	3	7
43	97	80	220	.... Whooping-cough....	68	82	85	235
2	1	4	7	..... Croup.....	2	7	3	12
384	353	397	1134	..... Diarrhoea.....	232	209	144	585
..	4	..	4	..... Dysentery.....	20	27	18	65
1	..	..	1	..... Cholera.....	..	..	..	..
32	26	13	71	..... Erysipelas.....	54	74	57	185
..	..	..	..	.... Puerperal Fever....	..	..	..	..
11	16	22	49	..... Insanity.....	31	51	35	127
770	1028	1241	3039	. Bronchitis and Catarrh..	1126	1551	1615	4292
11	9	14	34	..... Pleurisy.....	47	94	75	216
17	14	29	60	..... Pneumonia.....	..	..	..	..
2	4	5	11	..... Carbuncle.....	..	..	..	..
3563	4014	3691	11268	{ Accidents, and all other Diseases. }	4674	5527	4724	14925
5024	5734	5582	16340	..... TOTAL.....	6575	7933	7036	21544

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN FEBRUARY:			Royal Infirmary, Geo. REED, Esq.	Old Trafford, G. V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.	
	Inches.	Wet Days.								
Castleton Moor	4.591	..... 12								
Royton .....	3.585	..... 12								
Bowdon .....	3.328	..... 13								
Eccles.....	3.160	..... 13								
Thelwall ....	3.115	..... 13								
Old Trafford..	4.027	..... 13								
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	500ft.	
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.	
Mean @ 32° F., and reduced to sea level			29.609	29.663	29.645	29.661	29.654	29.651	29.650	
Highest.....			29.734	29.782	29.824	29.774	29.334	29.690	29.450	
Lowest .....			29.380	29.266	29.300	29.320	28.800	29.178	28.944	
Range .....			0.354	0.516	0.524	0.454	0.534	0.512	0.506	
<b>Temperature.</b>										
Adopted Mean .....			38.7	40.0	38.6	38.6	36.8	38.9	36.6	
Range for Week .....			11.2	20.8	17.2	16.0	13.8	16.2	12.0	
Daily Range .....			5.5	11.2	9.2	8.9	7.8	8.2	6.8	
Maximum in Shade .....			43.2	52.5	49.0	47.9	45.3	49.0	44.0	
Minimum in Shade .....			32.0	31.7	31.8	31.9	31.5	32.8	32.0	
Temperature of Dew Point .....			35.4	38.4	37.6	36.1	34.9	36.3	35.0	
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	
Degree of Humidity (Saturation—1,000)			0.882	0.944	0.949	0.913	0.936	0.903	0.934	
Prevailing Winds .....				NE	E	NE	NE	E, NE	EN, E	
Rain .....				1.558	1.201	1.204	1.530	1.108	2.253	

March 5, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

PL. IV.] WEEK ENDING SATURDAY, MARCH 12, 1864.

[No. 189.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating March 12th, 1,706 new cases of disease occurred in connection with the Public Charitable Institutions and Poor Law Unions: in the preceding week the total amounted to 1,609, or 97 less.

On turning to particular diseases we find a remarkable increase under Consumption. In the week ending March 5th, 58 sufferers from this disorder applied for relief; last week the number rose to 104. This increase cannot be ascribed to the severity of the weather. We have more than once remarked that tubercular disease of the lungs, or Consumption, does not appear to be lighted up or intensified by cold, or sudden alternations of temperature, in the same manner as Bronchitis and Influenza.

Among the zymotic diseases we observe a decrease of 10 in respect to Scarlet Fever.

There were 9 cases of Small-pox in the course of the week, all of which occurred in the Manchester Township, none being recorded in Salford, Hulme, or Chorlton.

Forty patients experienced attacks of Continued Fever, of which 4 proved examples of Typhus and 3 of Typhoid. Of these 7 cases it is satisfactory to observe that 4 were admitted as in-patients of the Royal Infirmary.

Whooping Cough, which a few weeks ago proved very prevalent, appears to be abating, only 12 cases being entered in last week's return.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 233 deaths and 333 births were registered in the eleven districts. This death return, at this season of the year, may be looked upon as decidedly favourable, more so in fact than the last report of the Registrar General, which goes to prove that the deaths in London exceeded the estimated number by 215.

Here, as in London, there is a marked decrease in the mortality from Scarlet Fever, the number recorded, which a fortnight ago reached 30, having fallen to 17.

The deaths from diseases connected with the chest amounted to 70.

There were only 5 fatal cases of Fever, and 5 of Diarrhœa.

In last week's return the Registrar General gives the deaths in Vienna in the week ending February 27th,—they amounted to 387, of which 143, or 1 in 2·7, arose from diseases connected with the chest; of the 143 no fewer than 93 were cases of Consumption. Thus the mortality from disorders of this class proved much heavier in Vienna than we usually find it in Manchester.

Last week the temperature of the air in London was 41·5°, at Old Trafford it was 37·8°, and at Eccles 38·4°. At each of these stations nearly one inch of rain was measured, in London one inch and a half.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



# MANCHESTER AND SAI

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC *New Cases of Disease coming under Treatment*

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	1	..	..	1	2	4	1	2	..	..	1	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	1	..	1	1	1	2	6	1	1	..	..	3	1	1	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	1	..	..	3	..	4	..	..	2	..	..	..	4	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	4	2	7	..	..	10	..	..	..	4	2
Dysentery .....	..	..	..	2	..	1	3	..	..	..	1	..	..	..	..
Continued Fever.....	1	..	..	*4	..	†4	9	8	‡4	..	..	§1	1	5	..
Erysipelas .....	1	..	..	..	..	..	1	3	..	6	1	..	..	..	..
Rheumatism .....	7	2	3	2	5	3	22	3	2	21	..	2	1	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	1	5	..	..	..	..	4
Constitutional Syphilis .....	..	..	..	..	..	..	..	9	..	6	1	..	..	..	..
Phthisis .....	..	1	..	2	5	..	8	3	1	58	1	3	..	1	4
Insanity .....	..	..	..	1	..	..	1	7	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	12	25	13	8	12	19	89	12	1	72	6	2	8	..	9
Pleurisy and Pneumonia....	..	1	..	..	2	..	3	..	..	..	..	1	1	15	1
Skin Diseases.....	..	2	1	2	..	2	7	16	2	18	..	..	1	2	8
Dyspepsia .....	4	2	2	1	5	..	14	..	..	24	..	..	2	4	6
Accidents and diseases not } classified..... }	31	8	21	8	14	13	95	55	27	199	8	9	12	84	9
TOTAL .....	57	44	41	31	52	48	273	118	41	421	18	22	28	120	45

\* Febricula.

+ 2 Typhus.

‡ 2 Typhus, and 2 Typhoid

*Medical Officers to whom the Association*

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) „ J. LORIMER,

(5) Dr. JOHN MEDD,  
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(9) }  
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(12) } „ G. E. WALKER,

(13) Mr. H. RUNN,  
(14) Dr. WHITEHEAD,  
(15) Mr. W. GOLD,  
(16) „ J. TEAL



SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS.  
Week ending the 12th day of March, 1864.

SALFORD.					HULME.			CHORLTON.	ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
..... 1,329 .....					..... 477.....			... 646...	508.	..... 2650.....				Area in Statute Acres.		
..... 70,967. ....					... 68,209. ...			.. 44,850 ..	21739	..... 24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.	
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's									
6	17	18	19	20	21	22	23	24	25	26	27	28				
..	..	..	..	..	..	..	..	..	..	..	..	..	9	32	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox .....	..
..	..	2	..	..	..	..	2	1	..	..	1	1	7	17	Measles .....	..
..	1	..	3	..	1	2	..	1	1	2	1	..	27	14	Scarlatina .....	2
..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	Diphtheria .....	..
..	..	..	1	..	..	..	..	..	1	..	..	..	12	5	Whooping-cough ....	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	Croup .....	..
..	..	..	1	4	..	2	1	1	2	1	..	5	40	33	Diarrhœa .....	1
1	..	..	1	..	..	..	..	1	..	1	..	..	8	2	Dysentery .....	..
..	..	1	1	..	*2	..	..	..	1	4	..	..	40	46	Continued Fever ....	..
..	..	..	1	..	..	..	..	..	..	1	..	..	13	1	Erysipelas .....	1
2	1	1	5	3	..	1	2	4	1	10	2	6	89	82	Rheumatism .....	..
..	..	..	..	..	..	..	..	..	1	2	..	..	13	9	Neuralgic Affections ..	..
..	..	..	3	..	..	..	..	..	..	1	1	10	31	31	Constitutional Syphilis	1
2	..	..	9	..	..	1	2	..	1	4	5	..	104	52	Phthisis .....	10
..	..	1	..	..	..	..	..	..	..	..	..	4	13	8	Insanity .....	..
8	4	2	22	4	7	12	12	6	12	7	18	12	328	233	Bronchitis, Influenza, and Catarrh .....	14
..	..	..	2	..	..	..	..	..	..	1	2	..	26	8	Pleurisy & Pneumonia.	..
..	..	2	8	..	1	2	1	2	2	2	1	8	83	52	Skin Disease.....	..
1	1	..	4	2	1	4	1	7	..	5	4	15	97	66	Dyspepsia .....	..
8	11	5	78	..	5	7	4	10	41	1	40	57	765	689	Accidents and diseases not classified.....	22
2	18	14	139	13	18	31	25	33	63	42	75	118	1706	1386	TOTAL.....	54

‡ Typhoid.

indebted for the annexed Returns.

- (17) Dr. SAMUEL BOOTH,

(18) Mr. M. O. LARMUTH,

(19) „ J. O. BRADBURY,

(20) „ W. B. STOTT,
- (21) Mr. JOHN SMITH,

(22) Dr. ALEX. WILSON,

(23) Mr. H. M. WILLIAMSON

(24) „ JOSEPH FOSTER,
- (25) Mr. JOHN RAYNER,

(26) „ J. V. L. WESTMACOTT,

(27) „ JOHN HOLDEN,

(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	a1	..	1	..	b1	..	..	c1	5	3
Measles .....	..	1	1	..	..	..	..	..	..	..	..	2	9
Whooping-cough.....	2	1	..	1	..	..	1	..	..	2	..	7	7
Scarlatina.....	3	4	..	..	1	3	..	1	1	3	1	17	24
Diarrhoea .....	..	1	..	..	1	2	1	..	..	..	..	5	6
Fever .....	..	1	1	d1	..	1	..	..	..	e1	..	..	8
Diseases of the Lungs ..	12	6	1	11	..	8	4	..	8	18	2	6	68
Other causes.....	12	7	19	4	15	e7	e11	9	10	18	f10	122	131
TOTAL NO. OF DEATHS.	29	21	23	18	17	22	17	11	19	42	14	233	256
TOTAL NO. OF BIRTHS.	50	24	14	18	21	33	26	19	28	68	32	333	265

a Male, aged 22 years.    b aged 16 years.    c Aged 1 month.    d Typhoid.    e 1 Inquest.    f 2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	4 Weeks ending 30th. Jan.	TOTAL.	DISEASE.	4 Weeks ending 28th Nov.	5 Weeks ending 2nd. Jan.	Weeks ending 30th. Jan.	TOTAL
32	28	12	72	.....Small-pox.....	46	33	30	109
19	9	11	39	..... Chicken-pox .....	13	3	16	32
33	46	26	105	..... Measles .....	43	38	60	131
94	85	28	207	.....Scarlatina.....	217	235	171	623
10	..	9	19	..... Diphtheria .....	2	2	3	7
43	97	80	220	.... Whooping-cough ....	68	82	85	235
2	1	4	7	.....Croup.....	2	7	3	12
384	353	397	1134	.....Diarrhoea.....	232	209	144	585
..	4	..	4	.....Dysentery.....	20	27	18	65
1	..	..	1	..... Cholera .....	..	..	..	..
32	26	13	71	.....Erysipelas.....	54	74	57	185
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
11	16	22	49	..... Insanity .....	31	51	35	127
770	1028	1241	3039	.Bronchitis and Catarrh..	1126	1551	1615	4292
11	9	14	34	..... Pleurisy .....	47	94	75	216
17	14	29	60	..... Pneumonia .....	..	..	..	..
2	4	5	11	.....Carbuncle.....	..	..	..	..
3563	4014	3691	11268	{ Accidents, and all other Diseases. }	4674	5527	4724	14925
5024	5734	5582	16340	..... TOTAL .....	6575	7933	7036	21544

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN FEBRUARY:			Royal Infirmary, GEO. REED, Esq.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T.MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W.Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches.	Wet Days.								
Castleton Moor	4.591	..... 12							
Royton .....	3.585	..... 12							
Bowdon .....	3.328	..... 15							
Eccles.....	3.160	..... 13							
Thelwall ....	3.115	..... 13							
Old Trafford..	4.027	..... 13							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	500ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			29.370	29.415	29.394	29.399	29.316	29.377	29.369
Highest.....			29.956	30.036	30.100	30.046	29.570	29.947	29.704
Lowest .....			28.742	28.722	28.754	28.696	28.273	28.619	28.362
Range .....			1.214	1.364	1.346	1.350	1.297	1.328	1.342
Temperature.									
Adopted Mean .....			39.4	37.8	39.8	38.4	36.2	38.5	35.5
Range for Week .....			16.8	24.3	20.8	25.2	25.2	22.7	22.6
Daily Range.....			8.7	11.7	12.8	10.5	11.0	9.4	10.7
Maximum in Shade .....			48.0	49.3	47.8	49.7	47.5	48.3	46.8
Minimum in Shade .....			31.2	25.0	27.0	24.5	22.3	25.6	24.2
Temperature of Dew Point .....			34.9	36.4	36.6	33.7	33.8	34.8	32.0
Hygrometrical condition of the Atmosphere.			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.840	0.946	0.888	0.833	0.910	0.854	0.870
Prevailing Winds .....				NE,SW	NE,SW	NE,SW	NE,SW	NE,SW	NE,SW
Rain .....				0.952	1.450	0.989	0.980	0.987	0.979

March 12, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, MARCH 19, 1864.

[No. 190.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending March 19th, 1,731 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions: in the two preceding weeks the respective numbers were 1,609 and 1,706.

On turning to the zymotic diseases we observe that 11 cases of Small-pox are stated to have occurred. Of these 11 cases 4 were met with in District III. of the Royal Infirmary, and 3 more among the paupers of the Ardwick Union. These cases should, if practicable, be removed from the abodes of their friends. In the corresponding week of last year the Small-pox cases amounted to 37.

Scarlet Fever still continues steadily to decrease. A fortnight ago 37 patients were seized with the disease; in the following week 27; and, in that just ended, 22. Of these 22, 7 were among the patients of the Salford Dispensary, and 5 in District II. of the Infirmary. In nineteen out of the twenty-eight returns not a single seizure is entered.

Whooping Cough appears once more pretty prevalent, the cases which in the preceding week fell to 12 last week again rose to 24.

On turning to disorders connected with the respiratory organs we find a further decrease once more perceptible; thus the respective numbers for the last three weeks were 363, 354, and 331. We again observe that with the decrease in the latter class of disorders there is an increase under the head of Diarrhœa, an increase which may be anticipated for the next five or six months.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The deaths last week in the eleven Registration Districts amounted to 271: in the preceding week the number was 233. But the births, likewise, proved excessive, no fewer than 394 being entered in our return. In no preceding week in the course of the present year has so high a birth-rate been recorded.

Of the deaths 75 arose from diseases connected with the chest. The mortality from disorders of this class has varied to a very small extent during the last three weeks.

There were 18 fatal cases of Scarlet Fever; in the two preceding weeks the respective numbers were 22 and 17.

In London, according to the last report of the Registrar General, the deaths exceeded the average by 44, thus exhibiting a considerable improvement on several of the preceding returns.

At the Royal Observatory, Greenwich, the mean temperature of the air was 43·0°, at Old Trafford it was 41·1°, and at Eccles 41·7°.

The weather, however, generally proved very trying, owing to the sudden alternations from heat to cold; thus, on one day at Old Trafford, the thermometer in the shade stood at 60·0°, and on another occasion fell to 26; exhibiting a range in the week of 34·0°. At Greenwich the range for the week was 27·3°, or 6·7° less.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	4	..	..
Chicken-pox .....	..	..	..	..	2	1	3	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	1	..	..	..	1	2	..	..	..	..	5	..	1	3
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	2	5	..	7	..	..	2	..	..	..	6	2
Croup .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Diarrhoea.....	2	1	2	..	4	..	9	1	2	15	..	..	..	4	4
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Continued Fever.....	*2	..	2	..	..	1	5	2	†3	..	1	4	..	5	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	10	..	..	..	..	..
Rheumatism .....	2	4	..	..	4	1	11	2	3	21	1	..	1	..	..
Neuralgic Affections .....	..	1	..	..	..	..	1	..	..	6	1	..	..	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	1	10	..	..	..	1	2
Phthisis .....	..	1	..	..	3	..	4	7	..	50	3	4	4	..	2
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	..	20	4	8	7	9	48	5	2	88	6	2	7	10	13
Pleurisy and Pneumonia....	1	2	1	..	1	..	5	..	2	1	1	1	..	..	2
Skin Diseases.....	2	1	1	..	..	..	4	5	..	25	..	..	1	1	13
Dyspepsia .....	1	2	2	1	6	1	13	..	..	21	..	..	..	..	9
Accidents and diseases not classified.....	32	14	19	9	9	9	92	48	34	276	7	11	14	62	6
TOTAL .....	42	47	31	20	43	24	207	78	47	525	20	27	31	90	56

\* 1 Febricula and 1 Typhus.      † Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

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(12) }
- (13) Mr. H. RUNCO

(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLA

(16) „ J. TEALE,



# SANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 19th day of March, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					
1,329 .....				477. ....			646. ...		508.	2650.....				Area in Statute Acres.	
70,967. ....				68,209. ....			44,850..		21739	24,448 .....				Population in 1861.	
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				DEATHS.
..	..	1	..	..	..	1	..	..	3	1	..	11	37	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	3	8	Chicken-pox .....	..
..	..	..	..	..	1	1	2	..	..	..	..	4	49	Measles .....	..
1	..	7	..	..	..	..	..	2	..	1	..	22	21	Scarlatina .....	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..
..	..	3	..	1	1	1	..	..	1	..	..	24	14	Whooping-cough ....	1
..	..	..	..	..	..	..	..	1	..	..	..	2	2	Croup .....	..
..	1	2	3	..	1	..	..	1	1	2	2	51	33	Diarrhœa .....	..
..	..	..	..	..	..	..	..	..	1	..	..	2	4	Dysentery .....	..
..	..	..	..	..	..	1	..	..	4	..	..	26	47	Continued Fever ....	3
..	..	1	..	..	..	..	1	..	1	..	..	13	6	Erysipelas .....	..
..	..	7	4	..	..	1	4	4	10	3	1	76	74	Rheumatism .....	..
..	1	1	..	..	1	..	..	1	2	..	..	14	17	Neuralgic Affections ..	..
..	1	3	..	..	..	..	..	..	1	1	4	31	43	Constitutional Syphilis	..
..	..	4	1	..	..	2	..	..	4	3	1	90	76	Phthisis .....	13
1	..	..	..	..	1	..	1	..	..	..	6	11	10	Insanity .....	..
1	1	28	5	9	8	6	9	17	7	13	20	316	322	Bronchitis, Influenza, and Catarrh .....	18
..	..	..	..	..	..	..	..	1	1	1	..	15	13	Pleurisy & Pneumonia.	1
1	1	6	1	1	2	..	2	..	2	..	13	78	79	Skin Disease.....	..
..	..	16	..	1	5	..	2	1	6	3	17	96	60	Dyspepsia .....	..
12	4	86	..	11	7	4	8	35	2	42	68	846	829	Accidents and diseases not classified.....	45
16	9	165	14	23	27	17	29	63	46	70	132	1731	1745	TOTAL.....	83

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
 (18) Mr. M. O. LARMUTH,  
 (19) „ J. O. BRADBURY,  
 (20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
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(25) Mr. JOHN RAYNER,  
 (26) „ J.V.L.WESTMACOTT,  
 (27) „ JOHN HOLDEN,  
 (28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tushp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	..	..	..	..	..	a1	..	..	c1	3	..
Measles .....	..	1	2	..	..	..	..	..	2	1	1	..	7
Whooping-cough .....	2	1	2	..	..	..	..	..	..	1	1	9	6
Searlatina .....	1	1	..	..	2	1	1	2	1	6	3	18	20
Diarrhoea .....	1	1	..	..	..	1	..	..	1	..	..	4	6
Fever .....	1	..	3	..	..	..	..	..	b2	2	..	8	6
Diseases of the Lungs ..	20	10	..	5	1	9	4	..	6	19	1	75	85
Other causes .....	8	15	37	8	14	9	14	14	9	17	9	154	154
TOTAL NO. OF DEATHS.	34	28	42	13	17	20	19	17	21	45	15	271	284
TOTAL NO. OF BIRTHS.	56	35	22	18	24	33	51	27	42	61	25	394	371

a Aged 6 weeks.      b 1 Gastric, aged 14 months, the other 5 years.      c Aged 3 years.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 2nd Jan.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASE.	5 Weeks ending 2nd Jan.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.
28	12	5	45	..... Small-pox .....	33	30	34	97
9	11	12	32	..... Chicken-pox .....	3	16	6	25
46	26	35	107	..... Measles .....	38	60	26	124
85	28	23	136	..... Searlatina .....	235	171	133	539
..	9	7	16	..... Diphtheria .....	2	3	6	11
97	80	75	252	.... Whooping-cough ....	82	85	100	267
1	4	1	6	..... Croup .....	7	3	1	11
353	397	517	1267	..... Diarrhoea .....	209	144	207	560
4	..	..	4	..... Dysentery .....	27	18	20	65
..	..	..	..	..... Cholera .....	..	..	..	..
26	13	17	56	..... Erysipelas .....	74	57	57	188
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
16	22	15	53	..... Insanity .....	51	35	26	112
1028	1241	1062	3331	.. Bronchitis and Catarrh..	1551	1615	1390	4556
9	14	12	35	..... Pleurisy .....	94	75	70	239
14	29	26	69	..... Pneumonia .....	..	..	..	..
4	5	5	14	..... Carbuncle .....	..	..	..	..
4014	3691	3793	11498	{ Accidents, and all other Diseases. }	5527	4724	4754	15005
5734	5582	5605	16921	..... TOTAL .....	7933	7036	6830	21799

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN FEBRUARY:			Royal Infirmary, GEO. REED, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Thelwall, J. ATKINSON, ESQ.	Eccles, T. MACKERETH ESQ.	Royton, J. HEAP, ESQ.	Bowdon, L. W. REYNOLDS ESQ.	Castl- ton Moor, REV. J. C. BATES.
Inches.	Wet Days.								
Castleton Moor	4.591	12							
Royton .....	3.585	12							
Bowdon .. ..	3.328	15							
Eccles .....	3.160	13							
Thelwall ....	3.115	13							
Old Trafford..	4.027	13							
Height of barometer eistern above sea level			130 ft.	123 ft.	96 ft.	127 ft.	522 ft.	221 ft.	500 ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			29.933	29.914	29.902	29.895	29.904	29.905	29.891
Highest .....			30.062	30.072	30.084	30.034	29.600	29.914	29.700
Lowest .....			29.652	29.592	29.620	29.562	29.134	29.478	29.204
Range .....			0.410	0.480	0.464	0.472	0.466	0.466	0.496
Temperature.									
Adopted Mean .....			40.9	41.1	41.7	41.7	40.7	41.1	39.7
Range for Week .....			22.8	34.0	30.0	29.9	32.0	28.5	26.0
Daily Range .....			14.7	21.5	17.0	16.0	18.1	15.5	16.3
Maximum in Shade .....			52.3	60.0	57.0	55.6	56.0	56.3	53.0
Minimum in Shade .....			29.5	26.0	27.0	25.7	24.0	27.8	27.0
Temperature of Dew Point .....			34.5	37.6	35.7	34.1	34.8	36.4	34.4
Hygrometrical condition of the Atmosphere			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.784	0.874	0.798	0.756	0.798	0.834	0.816
Prevailing Winds .....				SW, NE	SW, SE	SW, SE	SW, SE	SW, SE	SW, NE
Rain .....				0.163	0.276	0.221	0.325	0.288	0.250

March 19, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, MARCH 26, 1864.

[No. 191.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

A considerable time has elapsed since the state of the public health appeared so satisfactory as at present. In the week ending March 26th, 1,392 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week the number was 1,731, and in the corresponding one of last year 1,623.

On turning to the zymotic diseases we observe a decrease under Scarlet Fever,—only 17 cases occurred in the week; and, inasmuch as the seizures from this disorder have been gradually falling off, it may be hoped that no fresh outbreak will, for the present at all events, be reported.

With the subsidence of Scarlet Fever Small-pox appears once more on the rise,—last week the number of new cases amounted to 16; in the two preceding weeks the numbers were 9 and 11. Of the 16 patients it is satisfactory to observe that 8 were removed from their own houses, 5 being admitted into the Salford Workhouse and 3 into the Royal Infirmary. Too much attention cannot be devoted to such isolation of the sick.

There were 39 cases of Continued Fever, or 13 more than in the previous week. Three of these proved examples of Typhus, and are reported by Dr. Ledward as having come under his observation in the St. Michael's Poor Law District.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the same improvement is perceptible in the death returns as we have noticed in our disease column. The number of deaths registered in the eleven districts amounted to 225: in the preceding week it was 271, and in the corresponding one of last year 330.

In the deaths arising from diseases of the lungs there is a marked decrease, 56 instead of 75 being recorded.

In London, according to the last report of the Registrar General, the public health likewise proved favourable. The deaths were considerably below the estimated number.

At the Royal Observatory, Greenwich, the mean temperature of the air was  $40.4^{\circ}$ . At none of the Manchester stations was the mean reading of the thermometer so high; at Old Trafford it was  $38.7^{\circ}$ , and at Eccles  $39.1^{\circ}$ . Both in London and in this neighbourhood the range for the week was excessive; in the former amounting to  $30.7^{\circ}$ , and in the latter ranging between  $30.9^{\circ}$  and  $25.8^{\circ}$ . North-Easterly winds very generally prevailed.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	..	..	..	..	..	1	3	2	..	..	1	..	..	
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	1	..	..	
Measles .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	
Scarlatina .....	..	2	2	..	..	..	4	..	2	4	..	1	..	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	1	3	..	4	..	..	..	..	..	..	7	1	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	..	..	1	..	3	..	4	..	..	11	..	1	..	1	4	
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	
Continued Fever.....	..	..	..	4	..	*5	9	4	..	12	..	2	..	5	..	
Erysipelas .....	..	..	..	..	1	..	1	1	..	3	..	1	..	..	..	
Rheumatism .....	1	2	..	2	..	..	5	4	1	27	2	..	2	..	1	
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	3	1	2	..	..	2	
Constitutional Syphilis .....	..	..	..	..	..	..	..	10	..	13	..	..	..	..	1	
Phthisis .....	..	..	..	1	..	..	1	4	1	48	3	2	..	..	4	
Insanity .....	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	3	19	6	9	10	5	52	11	2	54	3	4	4	6	21	
Pleurisy and Pneumonia....	1	..	..	1	3	..	5	..	..	7	..	..	1	..	..	
Skin Diseases.....	1	2	1	1	3	..	8	10	..	20	..	..	..	2	12	
Dyspepsia .....	1	1	..	1	7	1	11	..	..	15	..	..	3	1	6	
Accidents and diseases not classified.....	26	13	18	11	9	7	84	41	30	180	3	4	7	56	9	
TOTAL .....	33	39	28	31	40	20	191	90	39	399	12	17	19	78	61	

\* 3 Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

(4) „ J. LORIMER,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. C. H. BRADDON,

(8) Dr. GEORGE REED,
- (9) } Mr. S. M. BRADLEY,

(10) } „ ALFRED GODSON,

(11) } „ G. E. WALKER,

(12) }
- (13) Mr. H. RUNCOR

(14) Dr. WHITEHEA

(15) Mr. W. GOLLAI

(16) „ J. TEALE,



ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 26th day of March, 1864

SALFORD.				HULME.			CHORLTON.	ARDWICK.	PENDLETON AND PENDLEBURY.						
1,329 .....				477 .....			646 ..	508.	2650 .....				Area in Statute Acres.		
70,967. ....				68,209. ..			44,850 ..	21739	24,448 .....				Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's									
17	18	19	20	21	22	23	24	25	26	27	28				
..	5	..	..	..	..	..	..	..	1	..	..	16	26	Small-pox .....	1
..	..	..	..	..	1	..	..	..	..	..	..	3	3	Chicken-pox .....	..
..	..	..	..	..	..	1	..	1	..	..	..	3	31	Measles .....	2
..	..	4	..	..	1	..	..	..	..	1	..	17	13	Scarlatina .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	4	..	1	..	1	1	1	..	..	2	22	6	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..
..	1	2	3	..	..	1	1	..	2	..	3	34	49	Diarrhoea .....	..
1	..	..	..	..	..	..	..	..	..	..	..	2	3	Dysentery .....	..
..	..	2	..	..	2	..	..	..	2	..	..	39	30	Continued Fever ....	2
..	..	..	..	..	..	..	..	..	..	..	..	6	6	Erysipelas .....	..
1	1	5	3	..	1	1	1	3	3	3	1	65	108	Rheumatism .....	..
..	..	2	..	..	..	..	1	..	2	..	..	14	22	Neuralgic Affections ..	..
..	..	5	..	..	..	..	..	1	..	1	5	38	31	Constitutional Syphilis	..
1	..	8	..	..	..	..	..	..	2	2	..	76	51	Phthisis .....	11
2	1	..	..	..	..	..	..	..	..	..	7	14	8	Insanity .....	..
7	4	20	7	7	7	5	9	10	6	11	4	257	275	Bronchitis, Influenza, and Catarrh .....	16
..	..	2	..	..	..	..	..	1	2	1	..	19	19	Pleurisy & Pneumonia.	2
2	2	10	1	1	..	..	..	3	2	..	3	77	94	Skin Disease .....	..
..	..	12	..	..	3	..	1	..	4	2	12	73	53	Dyspepsia .....	..
22	9	47	..	4	1	2	7	21	3	39	35	617	793	Accidents and diseases not classified .....	31
36	23	123	14	13	16	11	21	41	29	60	72	1392	1623	TOTAL .....	68

Debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,	(21) Mr. JOHN SMITH,	(25) Mr. JOHN RAYNER,
(18) Mr. M. O. LARMUTH,	(22) Dr. ALEX. WILSON,	(26) „ J.V.L.WESTMACOTT,
(19) „ J. O. BRADBURY,	(23) Mr. H. M.WILLIAMSON	(27) „ JOHN HOLDEN,
(20) „ W. B. STOTT,	(24) „ JOSEPH FOSTER,	(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	..	..	..	..	a1	b1	..	..	..	2	7
Measles .....	..	..	..	..	..	..	..	..	..	..	..	1	8
Whooping-cough.....	2	..	..	..	..	1	..	..	..	3	1	7	6
Scarlatina .....	4	2	1	..	..	5	2	2	1	2	..	19	16
Diarrhœa .....	1	..	..	..	..	..	..	1	..	..	1	3	9
Fever .....	1	..	..	1	1	..	..	..	..	1	..	4	9
Diseases of the Lungs ..	11	11	..	1	..	7	1	..	7	18	..	56	68
Other causes.....	12	10	27	10	8	7	17	c13	7	16	6	133	207
<b>TOTAL NO. OF DEATHS.</b>	<b>31</b>	<b>24</b>	<b>28</b>	<b>12</b>	<b>9</b>	<b>20</b>	<b>21</b>	<b>17</b>	<b>15</b>	<b>40</b>	<b>8</b>	<b>225</b>	<b>330</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>45</b>	<b>35</b>	<b>11</b>	<b>18</b>	<b>18</b>	<b>17</b>	<b>29</b>	<b>18</b>	<b>25</b>	<b>66</b>	<b>28</b>	<b>310</b>	<b>390</b>

a Aged 18 years.                      b Aged 4 years.                      c 2 Inquests.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
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Population in 1861, 390,815.

5 Weeks ending 2nd Jan.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASE.	5 Weeks ending 2nd Jan.	Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL
28	12	5	45	.....Small-pox.....	33	30	34	97
9	11	12	32	..... Chicken-pox .....	3	16	6	25
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..	..	..	..	..... Cholera .....	..	..	..	..
26	13	17	56	.....Erysipelas.....	74	57	57	188
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
16	22	15	53	..... Insanity .....	51	35	26	112
1028	1241	1062	3331	.Bronchitis and Catarrh..	1551	1615	1390	4556
9	14	12	35	..... Pleurisy .....	94	75	70	239
14	29	26	69	..... Pneumonia .....	..	..	..	..
4	5	5	14	..... Carbuncle .....	..	..	..	..
4014	3691	3793	11498	{ Accidents, and all other Diseases. }	5527	4724	4754	15005
5734	5582	5605	16921	..... TOTAL .....	7933	7036	6830	21799

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

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	Inches.	Wet Days.							
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Royton .....	3.585	..... 12							
Bowdon .. ...	3.328	..... 15							
Eccles.....	3.160	..... 13							
Thelwall ....	2.992	..... 13							
Old Trafford..	4.027	..... 13							
Height of barometer eistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	475 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			29.830	29.817	29.800	29.791	29.784	29.796	29.799
Highest.....			29.912	29.951	29.984	29.928	29.474	29.826	29.574
Lowest .....			29.504	29.507	29.526	29.504	29.068	29.420	29.124
Range .....			0.408	0.444	0.458	0.424	0.406	0.406	0.450
<b>Temperature.</b>									
Adopted Mean .....			39.8	38.7	39.0	39.1	37.8	38.4	37.6
Range for Week .....			25.8	30.9	29.3	27.0	30.6	29.8	26.1
Daily Range.....			15.2	18.3	17.5	16.0	16.1	15.3	13.7
Maximum in Shade .....			55.8	57.4	55.3	52.8	55.1	54.2	51.5
Minimum in Shade .....			30.0	26.5	26.0	25.8	24.5	28.4	25.4
Temperature of Dew Point .....			34.3	35.7	32.9	31.4	34.1	34.0	33.0
<b>Hygrometrical condition of the Atmosphere</b>									
Degree of Humidity (Saturation—1,000)			GRS. 0.808	GRS. 0.897	GRS. 0.798	GRS. 0.749	GRS. 0.870	GRS. 0.836	GRS. 0.830
Prevailing Winds .....			.....	NE	E,NW	NE,SW	NE,NW	E,NE	E,NE
Rain .....			.....	0.000	0.000	0.000	0.035	0.000	0.000

March 26, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, APRIL 2, 1864.

[No. 191.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending April 2nd, 1,502 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions: in the preceding week the number was 1,392, and in the corresponding one of last year 1,670.

Among the zymotic diseases we observe a considerable increase under Measles. During the wide-spread prevalence of Scarlet Fever this disorder proved comparatively slight; last week, however, 14 cases were entered in our return. 7 of them being met with in the parish of St. Philip, Hulme, and 4 more among the patients of the Chorlton Poor Law Union.

There were 24 seizures from Scarlet Fever, 7 of the sufferers being patients of the Salford Dispensary, and 5 more of that of Chorlton.

Small-pox proved of less frequent occurrence than in the previous week, nevertheless 10 cases were met with,—4 in Chorlton Poor Law Union.

The seizures from Continued Fever, which in the preceding week reached 39, last week fell to 24; but of these 6 were examples of Typhus—3 being admitted as in-patients of the Royal Infirmary.

It is satisfactory to observe that since the attention of the public has been directed to the highly contagious character of the latter disorder more attention has been paid to the removal of affected persons from their own homes. In the case of Scarlet Fever, however, special wards for the reception of children are urgently needed.

Disorders connected with the chest proved somewhat more general than in the preceding week, though less so than in the corresponding one of last year.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the deaths registered in the eleven districts amounted to 366. This total is not in reality so formidable as it appears; the 2nd of April being the last Saturday of the quarter, the great majority of those deaths on which it was deemed desirable to hold an inquest during the last three months are added to the actual death rate; they amounted, collectively to 107. On abstracting this number from the 366 cases we find that 259 persons died in the week, or 34 more than in that which preceded it, though 3 less than in the corresponding one of last year.

In London, according to the last return of the Registrar General, the deaths exceeded the estimated number by 132; those from Consumption were 40 above the average. A child is stated to have died in the parish of St. Olave's, Southwark, from enteritis, twelve months after having swallowed a halfpenny.

At the Royal Observatory, Greenwich, the mean temperature of the air was 41.0°, the lowest night temperature being 28.0°, and the highest day temperature 54.4°. At both Old Trafford and Eccles the mean was 40.4°. The range for the week was somewhat less at the two latter stations than in the neighbourhood of London.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33. PALM MALL, MANCHESTER.



MANCHESTER AND SAL

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Scarlatina .....	..	4	1	..	3	1	9	..	..	..	1	1	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	1	..	..	3	..	4	..	..	2	..	..	..	7	2
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	2	2	1	2	4	..	11	..	..	2	..	..	..	4	1
Dysentery .....	..	..	..	..	..	..	..	..	1	..	..	..	1	1	..
Continued Fever.....	..	1	..	..	..	*3	4	2	‡3	..	‡1	1	..	4	..
Erysipelas .....	1	..	1	..	..	..	2	..	..	..	..	..	..	..	..
Rheumatism .....	7	2	5	3	7	..	24	2	1	20	1	3	2	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	3	..	..	2	..	2
Constitutional Syphilis .....	..	..	1	..	..	..	1	6	..	11	..	..	..	..	1
Phthisis .....	1	1	1	3	2	..	8	..	..	30	2	2	3	1	1
Insanity .....	..	..	..	..	..	1	1	7	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	3	11	19	15	6	6	60	9	2	59	4	1	2	8	18
Pleurisy and Pneumonia....	2	..	..	..	2	..	4	..	..	1	1	1	1	..	1
Skin Diseases.....	..	2	..	2	3	..	7	2	..	27	1	..	4	7	6
Dyspepsia .....	1	..	2	5	5	..	13	..	..	14	..	..	1	1	8
Accidents and diseases not classified.....	59	13	26	11	9	17	135	49	30	171	4	6	8	51	11
TOTAL .....	76	37	57	41	45	28	284	77	38	340	16	15	25	84	51

\* 2 Typhus.                      ‡ Typhus.                      † Febricula.

Medical Officers to whom the Association

- |                       |                        |                          |                   |
|-----------------------|------------------------|--------------------------|-------------------|
| (1) Mr. R. M. MANN.   | (5) Dr. JOHN MEDD,     | (9)                      | (13) Mr. H. RUNCO |
| (2) „ J. BROADBENT,   | (6) „ LEDWARD,         | (10) } Mr. G. E. WALKER, | (14) Dr. WHITEHI  |
| (3) „ JOHN ARMSTRONG, | (7) Mr. A. I. HILLIPS, | (11) } „ ALFRED GODSON,  | (15) Mr. W. GOLL  |
| (4) Dr. BRADDON,      | (8) Dr. GEORGE REED,   | (12) }                   | (16) „ J. TEALE   |



ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 2nd day of April, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					
1,329 .....				477 .....			616 .....		508.	2650 .....			Area in Statute Acres.		
70,967. ....				68,209. ....			44,850 .....		21739	24,148 .....			Population in 1861.		
LAW TRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	..	..	..	..	..	..	..	4	..	2	10	48	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Chicken-pox .....	..
..	..	..	..	..	..	7	4	2	..	..	..	14	44	Measles .....	1
..	..	7	..	..	..	..	..	5	..	1	..	24	16	Scarlatina .....	1
..	..	..	.	1	..	..	..	..	..	..	.	1	..	Diphtheria .....	..
..	..	5	..	..	..	..	..	3	1	..	..	24	15	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..
..	..	3	3	1	1	2	..	..	3	1	1	38	30	Diarrhoea .....	1
..	..	..	..	..	..	..	..	..	..	..	..	5	4	Dysentery .....	..
..	..	2	..	†3	..	..	..	..	2	..	1	24	40	Continued Fever ....	4
..	1	..	..	..	..	..	..	..	1	..	..	4	3	Erysipelas .....	..
3	2	6	2	4	1	2	..	3	3	2	8	89	93	Rheumatism .....	1
..	..	3	1	..	..	..	..	..	2	..	..	13	17	Neuralgic Affections ..	..
..	..	4	..	..	..	..	..	1	..	2	3	31	35	Constitutional Syphilis	..
..	..	6	..	..	..	..	1	2	3	2	1	62	84	Phthisis .....	8
2	3	..	..	..	..	..	..	..	..	..	4	17	12	Insanity .....	..
2	3	29	4	3	9	4	7	8	8	9	16	275	298	Bronchitis, Influenza, and Catarrh .....	17
..	..	1	..	..	..	1	..	2	2	1	1	17	18	Pleurisy & Pneumonia.	2
..	3	7	1	..	..	..	1	..	2	..	4	72	76	Skin Disease.....	..
..	..	15	..	..	1	..	4	..	4	2	7	73	71	Dyspepsia .....	..
9	6	79	..	2	8	4	9	30	3	36	43	709	760	Accidents and diseases not classified.....	28
16	19	167	11	14	20	20	26	56	38	56	91	1502	1670	TOTAL.....	63

debted for the annexed Returns.

- (17) Dr. SAMUEL BOOTH,

(18) Mr. M. O. LARMUTH,

(19) „ J. O. BRADBURY,

(20) „ W. B. STOTT,
- (21) Mr. JOHN SMITH,

(22) Dr. ALEX. WILSON,

(23) Mr. H. M. WILLIAMSON

(24) „ JOSEPH FOSTER,
- (25) Mr. JOHN RAYNER,

(26) „ J. V. L. WESTMACOTT,

(27) „ JOHN HOLDEN,

(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	g1	..	..	..	1	3
Measles .....	..	..	..	..	..	..	..	..	3	2	..	5	5
Whooping-cough.....	1	1	..	1	..	..	..	..	..	5	..	8	10
Scarlatina .....	1	1	..	1	1	4	3	..	4	4	2	21	13
Diarrhoea .....	..	1	1	..	..	..	1	1	..	..	..	4	5
Fever .....	..	..	4	1	d1	..	..	..	1	1	..	8	8
Diseases of the Lungs ..	11	8	2	4	..	8	4	..	7	15	12	71	46
Other causes.....	a39	b24	39	c21	e30	7	f17	7	h20	i33	f11	248	172
TOTAL NO. OF DEATHS.	52	35	46	28	32	19	25	9	35	60	25	366	262
TOTAL NO. OF BIRTHS.	50	27	28	18	32	26	27	12	28	71	17	336	348

a 25 Inquests. b 17 Inquests. c 12 Inquests. d Typhus. e 14 Inquests. f 6 Inquests. g Aged 4 weeks.  
h 13 Inquests. i 20 Inquests.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 2nd Jan.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASE.	5 Weeks ending 2nd Jan.	Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL
28	12	5	45	..... Small-pox .....	33	30	34	97
9	11	12	32	..... Chicken-pox .....	3	16	6	25
46	26	35	107	..... Measles .....	38	60	26	124
85	28	23	136	..... Scarlatina .....	235	171	133	539
..	9	7	16	..... Diphtheria .....	2	3	6	11
97	80	75	252	.... Whooping-cough ....	82	85	100	267
1	4	1	6	..... Croup .....	7	3	1	11
353	397	517	1267	..... Diarrhoea .....	209	144	207	560
4	..	..	4	..... Dysentery .....	27	18	20	65
..	..	..	..	..... Cholera .....	..	..	..	..
26	13	17	56	..... Erysipelas .....	74	57	57	188
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
16	22	15	53	..... Insanity .....	51	35	26	112
1028	1241	1062	3331	.. Bronchitis and Catarrh ..	1551	1615	1390	4556
9	14	12	35	..... Pleurisy .....	94	75	70	239
14	29	26	69	..... Pneumonia .....	..	..	..	..
4	5	5	14	..... Carbuncle .....	..	..	..	..
4014	3691	3793	11498	{ Accidents, and all other Diseases. }	5527	4724	4754	15005
5734	5582	5605	16921	..... TOTAL .....	7933	7036	6830	21799

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN MARCH: Inches. Wet Days.			Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKAY, Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. REYNOLDS, Esq.	Castleton Moor, Rev. J. C. BATES.
Thelwall .....	3.202	13							
Bowdon .....	2.416	16							
Eccles .....	2.375	15							
Royton .....	2.275	17							
Castleton Moor	2.273	17							
Old Trafford ..	2.011	13							
Height of barometer cistern above sea level	130 ft.	123 ft.	96 ft.	127 ft.	522 ft.	221 ft.	475 ft.		
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.	INS.	INS.	
Mean @ 32° F., and reduced to sea level	29.582	29.564	29.561	29.560	29.558	29.556	29.536		
Highest .....	29.820	29.863	29.904	29.846	29.360	29.753	29.500		
Lowest .....	29.236	29.054	29.080	29.004	28.529	28.932	28.676		
Range .....	0.584	0.809	0.824	0.842	0.831	0.827	0.824		
Temperature.									
Adopted Mean .....	39.4	40.4	40.5	40.4	38.3	39.7	37.6		
Range for Week .....	21.0	23.8	23.8	22.1	21.8	22.3	19.1		
Daily Range .....	10.9	15.9	13.2	13.9	15.4	13.3	12.5		
Maximum in Shade .....	51.2	54.8	54.0	52.3	50.7	52.0	49.0		
Minimum in Shade .....	30.2	31.0	30.2	30.2	23.9	29.7	29.9		
Temperature of Dew Point .....	33.4	36.8	34.4	33.8	35.2	34.1	34.5		
Hygrometrical condition of the Atmosphere	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	
Degree of Humidity (Saturation—1,000)	0.793	0.876	0.781	0.780	0.889	0.808	0.886		
Prevailing Winds .....	SW,NW	W,NW	NW	NW	W,NW	W,NW	W,NW		
Rain .....	0.862	0.904	0.942	0.930	0.894	1.010			

April 2, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester..



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, APRIL 9, 1864.

[No. 192.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating the 9th of April, 1,709 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week the number was 1,502, and in the corresponding one of last year 1,702.

Though the general total is higher than that recorded during the last few weeks this result does not appear in any degree attributable to the increasing prevalence of the more severe zymotic diseases. Thus there were only 10 new cases of Scarlet Fever,—in the preceding week the number was 25.

From Small-pox there were 10 seizures, 5 of which occurred in the Ardwick Poor Law District. In the corresponding week of 1863 no fewer than 45 persons experienced attacks of the last-named disorder.

Measles, also, at that time, contributed 45 patients to the return, last week only 7 cases were entered.

The number of persons suffering from Continued Fever amounted to 30, but only 1 of the cases is referred to as an example of Typhus.

Diarrhœa, likewise, proved much less prevalent than in 1863, the respective numbers being 48 and 29.

It is satisfactory to observe that many weeks have elapsed since the return of epidemic diseases proved so favourable as at present.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 230 deaths were registered in the eleven districts: in the preceding week the estimated number was 259.

It is remarkable that, though in connection with all the Charitable Institutions there were only 10 cases of Scarlet Fever, nevertheless the deaths among all classes of the population amounted to 20. It must be borne in mind, however, that in the preceding week the cases reached 25; and that, generally speaking, when there is a large increase or decrease in the number of sufferers from any particular disease, it is only in the succeeding week that such a result is rendered apparent in the *death* register. Hence, from the diminution in the seizures we have this week recorded, we are probably justified in anticipating a falling-off in the mortality in our next return.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 118. The health of London during the late quarter was highly unsatisfactory; nearly 4,000 more persons died in the course of the thirteen weeks than in the four preceding and corresponding quarters. The Registrar General shows, by the table of diseases, that the inclement weather was the grand cause of the excessive mortality. In the warm winter of 1862-63 the deaths from Bronchitis scarcely exceeded 2,200, in the past winter they rose to 4,023; and those from Inflammation of the Lungs from 1,000 to 1,425.

Last week the mean temperature of the air was, at Greenwich, 44.5°, at Old Trafford it was 44.0°, and at Eccles 43.3°. The range of temperature for the week at these three stations nearly exactly corresponded.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	1	..	..	..	1	1	..	..	..	..	..	1	..
Chicken-pox .....	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	1	..	2	..	3	..	..	..	..	1	1	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	2	..	2	..	..	1	..	..	2	5	1
Croup .....	..	1	..	..	..	..	1	..	..	1	..	..	..	..	..
Diarrhoea.....	..	3	2	2	4	1	12	..	..	4	..	..	..	2	1
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	..	*1	4	..	..	†3	8	4	..	..	2	4	..	3	..
Erysipelas .....	1	1	..	..	..	..	2	1	..	..	1	1	..	..	..
Rheumatism .....	6	1	2	4	6	..	19	3	3	25	..	1	1	3	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	4	..	..	..	..	3
Constitutional Syphilis .....	..	..	1	..	..	..	1	8	..	11	..	..	..	..	..
Phthisis .....	1	5	1	..	3	1	11	4	1	33	..	1	3	..	3
Insanity .....	..	..	..	..	..	..	..	5	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	9	12	9	10	10	19	69	10	..	49	1	2	4	12	14
Pleurisy and Pneumonia....	..	..	..	..	2	2	4	..	..	2	1	..	..	..	1
Skin Diseases.....	..	..	..	2	3	..	5	8	..	32	..	..	2	6	15
Dyspepsia .....	..	3	1	..	7	..	11	..	..	17	..	..	2	4	9
Accidents and diseases not } classified..... }	47	13	26	16	9	7	118	48	35	311	6	9	8	49	14
TOTAL .....	64	40	48	35	48	33	268	92	39	490	11	19	23	86	61

\* Febricula.                      † 1 Typhus.                      ‡ Febricula.

Medical Officers to whom the Association are indebted for their assistance

- |                       |                      |                          |                 |
|-----------------------|----------------------|--------------------------|-----------------|
| (1) Mr. R. M. MANN.   | (5) Dr. JOHN MEDD,   | (9)                      | (13) Mr. H. RUN |
| (2) „ J. BROADBENT,   | (6) „ LEDWARD,       | (10) } Mr. G. E. WALKER, | (14) Dr. WHITE  |
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| (4) Dr. BRADDON,      | (8) Dr. GEORGE REED, | (12) }                   | (16) „ J. TEAL  |



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 9th day of April, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.						DEATHS.
1,329 .....				477. ....			646. ...		508.	2650.....				Area in Statute Acres.		
70,967. ....				68,209. ...			44,850. ...		21739	24,448 .....				Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23	24	25	26	27	28					
..	..	..	..	..	..	1	..	..	5	..	1	10	45	Small-pox .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	1	8	Chicken-pox .....	..	
..	..	..	..	..	..	5	2	..	..	..	..	7	45	Measles .....	2	
..	..	1	..	..	1	..	..	1	..	1	..	10	13	Scarlatina .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Diphtheria .....	1	
..	..	..	..	..	1	..	..	3	..	..	..	15	12	Whooping-cough ....	1	
..	..	..	..	..	..	..	..	..	1	..	..	3	2	Croup .....	1	
..	..	1	3	..	..	..	1	1	2	..	..	29	48	Diarrhoea .....	..	
..	..	..	..	..	..	..	1	..	..	..	..	1	6	Dysentery .....	..	
..	..	1	..	3	..	1	..	1	2	..	..	30	38	Continued Fever ....	1	
..	..	1	..	..	..	..	..	..	1	..	..	7	11	Erysipelas .....	..	
1	..	5	2	1	1	1	3	4	4	2	4	83	85	Rheumatism .....	..	
..	..	2	..	..	..	..	..	..	2	..	..	11	14	Neuralgic Affections ..	..	
..	2	3	..	..	..	..	..	..	..	1	5	32	28	Constitutional Syphilis	..	
..	..	3	..	..	..	..	2	1	4	2	..	68	64	Phthisis .....	13	
..	3	..	..	..	..	..	..	..	..	..	2	11	15	Insanity .....	..	
5	..	13	6	5	11	9	2	14	6	7	31	283	307	Bronchitis, Influenza, and Catarrh.....	10	
..	1	2	..	..	..	..	1	1	1	..	1	15	12	Pleurisy & Pneumonia.	3	
2	3	6	3	2	1	..	..	3	3	1	3	95	71	Skin Disease.....	..	
..	..	9	..	..	3	2	3	3	6	2	11	84	62	Dyspepsia .....	..	
14	7	114	1	4	7	6	11	33	5	36	65	914	812	Accidents and diseases not classified.....	41	
22	16	161	15	15	25	25	26	65	42	52	123	1709	1702	TOTAL.....	72	

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	..	..	..	1	..	..	..	..	2	3
Measles .....	..	..	..	..	..	..	..	..	1	2	..	3	6
Whooping-cough.....	..	..	..	..	1	1	2	..	..	..	..	4	10
Scarlatina .....	2	..	..	1	..	6	1	..	2	7	1	20	16
Diarrhoea .....	..	..	..	..	..	..	..	..	1	..	..	1	2
Fever .....	1	1	4	..	..	..	..	c1	..	1	2	10	7
Diseases of the Lungs ..	6	6	..	12	1	5	5	..	11	14	3	63	58
Other causes.....	17	12	21	6	10	a14	b15	8	11	10	3	127	133
TOTAL NO. OF DEATHS.	26	19	26	19	12	26	24	9	26	34	9	230	235
TOTAL NO. OF BIRTHS.	52	44	21	27	29	45	13	22	32	44	27	356	335

a 3 Inquests.

b 1 Inquest.

c Typhus.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	TOTAL.	DISEASE.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	TOTAL
12	5	8	25	.....Small-pox.....	30	34	46	110
11	12	17	40	.....Chicken-pox.....	16	6	7	29
26	35	22	83	.....Measles.....	60	26	17	103
23	23	23	79	.....Scarlatina.....	171	133	103	407
9	7	6	22	.....Diphtheria.....	3	6	1	10
80	75	79	234	....Whooping-cough....	85	100	72	257
4	1	2	7	.....Croup.....	3	1	4	8
397	517	560	1474	.....Diarrhoea.....	144	207	166	517
..	..	7	7	.....Dysentery.....	18	20	15	53
..	..	1	1	.....Cholera.....	..	..	..	..
13	17	18	48	.....Erysipelas.....	57	57	37	151
..	..	..	..	....Puerperal Fever....	..	..	..	..
22	15	26	63	.....Insanity.....	35	26	53	114
1241	1062	995	3298	.Bronchitis and Catarrh..	1615	1390	1251	4256
14	12	7	33	.....Pleurisy.....	75	70	73	218
29	26	32	87	.....Pneumonia.....	..	..	..	..
5	5	6	16	.....Carbuncle.....	..	..	..	..
3691	3793	3365	10849	{ Accidents, and all other Diseases. }	4724	4754	4593	14071
5582	5605	5179	16366	..... TOTAL .....	7036	6330	6438	20304

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN MARCH: Inches. Wet Days.			Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Thelwall ....	3.202	.....	13						
Bowdon .. ..	2.416	.....	16						
Eccles.....	2.375	.....	15						
Royton .....	2.275	.....	17						
Castleton Moor	2.273	.....	17						
Old Trafford..	2.011	.....	13						
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	475 ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			30.126	30.215	30.138	30.151	30.102	30.143	30.145
Highest.....		Unreduced {	30.266	30.246	30.280	30.224	29.779	30.145	29.880
Lowest .....			29.782	29.663	29.708	29.644	29.204	29.570	29.284
Range .....			0.484	0.583	0.572	0.580	0.575	0.575	0.596
Temperature.									
Adopted Mean .....			43.4	44.0	43.1	43.3	42.8	43.7	42.3
Range for Week .....			19.0	26.5	21.7	25.2	23.1	22.8	21.8
Daily Range.....			9.8	12.1	7.8	10.2	9.7	8.3	9.3
Maximum in Shade .....			52.8	60.5	55.0	58.4	56.4	56.1	55.5
Minimum in Shade .....			33.8	34.0	33.3	33.2	33.3	33.3	33.7
Temperature of Dew Point .....			40.5	39.8	41.8	40.5	41.0	39.9	39.9
Hygrometrical condition of the Atmosphere.			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.896	0.848	0.952	0.886	0.934	0.854	0.912
Prevailing Winds .....				SW,S	W,SE	SE,SW	SE,SW	SE,SW	SE,SW
Rain .....				1.277	1.319	1.345	0.805	1.342	0.915

April 9, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.





# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, APRIL 16, 1864.

[No. 194.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending April 16th 1,477 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week the number was 1,709, and in the corresponding one of last year 1,713.

On turning to the zymotic diseases we find that Scarlet Fever, which in the previous week fell to 10, last week again rose to 26; 13 of these cases occurred among the patients of the Salford Dispensary.

Nine persons suffered attacks of Small-pox, of which 4 were met with among the patients of the Ardwick Poor Law District. In our preceding summary we likewise directed attention to the prevalence of this disorder in this quarter of the town.

There were 36 cases of Continued Fever, 4 of them proved examples of Typhus and 1 of Typhoid Fever. They were all observed among the patients of the Royal Infirmary, and it is satisfactory to find that 3 were admitted as in-patients.

The favourable effects of the mildness of the season is seen in the decrease of Bronchitis, Pleurisy, and kindred affections of the chest; the respective numbers during the last weeks were 298 and 223.

Rheumatism, including Rheumatic Fever, also proved less prevalent, 68 instead of 83 cases being entered in our present return.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Many months have elapsed since the death return proved as favourable as in the week just ended; the total number registered amounted to 218. Thus the health of Manchester, at the present time, may be considered decidedly favourable.

In London, according to the last return of the Registrar General, the number of deaths exceeded the estimated number by 159. That return contains an analysis of the water supplied to the public in Manchester, and by the chief London Companies; the contrast in favour of the former is remarkable. Thus the Manchester water contained, in the gallon, 3.33 grains of foreign matter in solution; the purest of the London water no less than 19.76 grains.

Among the diseases which proved especially fatal we find that Scarlet Fever carried off no fewer than 29 persons: and, inasmuch as in the preceding week the number of cases only amounted to 10, it is probable that the great majority of the sufferers were among the better-to-do classes, and thus did not come under the cognizance of the medical officers of our Charitable Institutions and Poor Law Unions.

There were only 46 deaths from diseases connected with the lungs, in the previous week there were 63.

Only one death is stated to have occurred from Diarrhoea. Thus, though the weather was warm, it was not sufficiently so to excite the latter disease.

At Greenwich Observatory the mean temperature of the air was 48.9°, at Old Trafford it was 48.5°, and at Eccles 46.9°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
							Total of Districts.	ROYAL INFIRMARY.						CHILDREN		
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's		Workhouse.	In-patients	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Measles .....	..	..	..	..	2	..	2	1	..	..	..	..	..	1	..	..
Scarlatina .....	..	..	2	..	..	1	3	..	..	..	..	1	..	2	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	1	..	1	..	..	..	..	..	..	6	3	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	2	..	..	3	..	5	..	..	2	..	1	1	2	5	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	..	..	1	..	1	3	5	4	3	..	2	1	1	10	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism .....	1	6	6	..	4	2	19	4	1	10	..	2	..	2	3	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	2	5	..	..	..	..	6	..
Constitutional Syphilis .....	..	..	..	..	1	..	1	7	..	7	..	..	..	..	1	..
Phthisis .....	2	2	2	..	5	..	11	4	..	21	3	3	6	..	4	..
Insanity .....	..	..	..	..	..	..	..	5	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	4	10	8	7	7	3	39	12	1	44	2	7	3	8	14	..
Pleurisy and Pneumonia....	..	1	..	..	2	..	3	1	1	..	..	1	3	..	2	..
Skin Diseases.....	4	3	..	..	..	..	7	12	..	11	..	..	..	4	16	..
Dyspepsia .....	..	1	2	..	6	..	9	..	1	25	..	1	1	4	16	..
Accidents and diseases not classified.....	26	17	20	13	7	24	107	80	32	268	3	7	6	45	14	..
TOTAL .....	37	42	41	20	39	34	213	130	41	363	10	24	21	85	85	..

Febricula.                      + 2 Typhus and 1 Typhoid.                      = Typhus.

Medical Officers to whom the Association

- |                       |                      |                          |                    |
|-----------------------|----------------------|--------------------------|--------------------|
| (1) Mr. R. M. MANN.   | (5) Dr. JOHN MEDD,   | (9) {                    | (13) Mr. H. RUNCOR |
| (2) " J. BROADBENT,   | (6) " LEDWARD,       | (10) } Mr. G. E. WAIKER, | (14) Dr. WHITEHEAD |
| (3) " JOHN ARMSTRONG, | (7) Mr. A. PHILLIPS, | (11) } " ALFRED GIBSON,  | (15) Mr. W. GOLLAN |
| (4) Dr. BRADDON,      | (8) Dr. GEORGE REED, | (12) }                   | (16) " J. TEALE,   |



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 16th day of April, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY						
1,329 .....				477. ....			646. ...		508.	2650.....			Area in Statute Acres.			
70,967. ....				68,209. ...			44,850..		21739	24,448 .....			Population in 1861.			
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work- house.	Total.	Corresponding Week last Year.	DISEASES.		DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28					
..	1	..	..	1	..	..	..	..	4	..	1	9	38	Small-pox .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	2	3	Chicken-pox .....	..	
..	..	..	..	..	..	2	2	..	..	..	1	9	35	Measles .....	1	
..	..	13	..	1	1	..	..	1	3	1	..	26	15	Scarlatina .....	3	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	1	..	1	12	12	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	1	..	..	1	2	Croup .....	1	
..	1	1	2	..	..	..	1	1	..	1	3	29	41	Diarrhœa .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Dysentery .....	..	
2	..	2	..	*1	..	2	..	..	2	1	..	36	57	Continued Fever ....	2	
..	..	..	..	1	1	..	..	..	..	..	1	3	6	Erysipelas .....	1	
1	2	4	2	..	3	1	1	3	2	2	5	68	91	Rheumatism .....	..	
..	..	2	..	..	..	..	..	..	2	..	..	17	23	Neuralgic Affections ..	..	
..	..	..	..	..	1	..	..	..	..	..	2	19	29	Constitutional Syphilis	..	
..	..	6	1	1	..	..	..	..	2	3	..	65	64	Phthisis .....	5	
..	..	..	..	..	..	..	3	..	..	..	3	11	12	Insanity .....	..	
..	1	12	5	2	6	4	12	7	4	9	6	205	265	Bronchitis, Influenza, and Catarrh.....	12	
1	..	1	..	..	1	..	..	1	2	1	..	18	12	Pleurisy & Pneumonia.	1	
..	3	6	..	..	1	..	1	3	2	..	4	71	82	Skin Disease.....	..	
..	1	8	1	2	..	1	3	..	5	3	7	89	87	Dyspepsia .....	..	
8	4	97	2	7	2	2	8	39	3	39	31	787	831	Accidents and diseases not classified.....	23	
12	13	152	13	16	16	12	31	55	33	60	65	1477	1713	TOTAL.....	50	

debited for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. SLOTT,

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(23) Mr. H. M. WILLIAMSON  
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(26) „ J. V. L. WESTMACOTT,  
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(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greenigate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Pippie.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	2	3
Measles .....	..	..	..	1	..	..	..	..	..	1	..	5	7
Whooping-cough.....	..	..	..	1	1	..	..	..	..	2	..	9	9
Scarlatina.....	4	2	..	..	3	2	6	2	5	4	1	29	14
Diarrhœa .....	..	..	..	1	..	..	..	..	..	..	..	1	1
Fever .....	1	1	2	1	..	..	..	..	..	..	1	6	11
Diseases of the Lungs ..	8	1	..	7	1	6	2	..	8	10	3	46	51
Other causes.....	13	11	26	8	14	9	6	12	9	14	7	129	146
<b>TOTAL NO. OF DEATHS.</b>	<b>23</b>	<b>15</b>	<b>28</b>	<b>19</b>	<b>19</b>	<b>17</b>	<b>14</b>	<b>14</b>	<b>23</b>	<b>31</b>	<b>12</b>	<b>218</b>	<b>242</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>51</b>	<b>25</b>	<b>17</b>	<b>15</b>	<b>24</b>	<b>38</b>	<b>17</b>	<b>24</b>	<b>33</b>	<b>46</b>	<b>24</b>	<b>314</b>	<b>367</b>

a Typhus.

b Gastric.

c 2 Inquests.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
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26	35	22	83	..... Measles .....	60	26	17	103
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..	..	7	7	.....Dysentery.....	18	20	15	53
..	..	1	1	.....Cholera.....	..	..	..	..
13	17	18	48	.....Erysipelas.....	57	57	37	151
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22	15	26	63	..... Insanity .....	35	26	53	114
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5	5	6	16	.....Carbuncle.....	..	..	..	..
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Bowdon .. ...	2.416	16							
Eccles.....	2.375	15							
Royton .....	2.275	17							
Castleton Moor	2.273	17							
Old Trafford ..	2.011	13							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	475 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			29.976	29.993	29.981	29.980	29.964	29.981	29.965
Highest.....			30.1.8	30.140	30.176	30.112	29.657	30.040	29.776
Lowest.....			29.602	29.619	29.666	29.608	29.152	29.514	29.228
Range .....			0.566	0.521	0.510	0.504	0.505	0.526	0.548
<b>Temperature.</b>									
Adopted Mean .....			49.0	48.5	46.9	46.9	47.3	46.9	46.4
Range for Week .....			29.1	36.1	31.6	32.3	34.8	28.7	30.6
Daily Range .....			13.0	22.9	17.9	17.9	19.5	16.6	17.3
Maximum in Shade .....			61.8	66.3	61.7	62.3	65.0	61.7	62.5
Minimum in Shade .....			41.7	30.2	30.1	30.0	30.2	33.0	31.9
Temperature of Dew Point .....			42.1	41.2	38.8	39.1	40.4	39.0	38.1
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.765	0.760	0.752	0.750	0.760	0.778	0.736
Prevailing Winds .....				SE	SE,SW	SE,SW	SE,SW	SE,NW	SE,SW
Rain .....				0.206	0.162	0.217	0.130	0.227	0.231

April 16, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, APRIL 23, 1864.

[No. 195.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending April 23rd 1,524 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions: in the preceding week the number was 1,477, and in the corresponding one of last year 1,612.

There were 17 new cases of Scarlet Fever, or 9 fewer than in the previous week; this disease, however, as will be seen in our death return, proved very much more general among the population at large than the foregoing number of seizures would lead us to infer.

We observe an increase under Measles—16 instead of 9 cases being last week recorded.

Continued Fever attacked 39 persons, of which 8 are referred to as examples of Typhus; no fewer than 5 of these were admitted into the Royal Infirmary. It is impossible to calculate the benefits arising from such isolation of the sick in the case of so highly contagious and fatal a disorder. It is only to be regretted that greater facilities are not afforded for the removal of children suffering from Scarlet Fever and Small-pox to reception-houses set apart to infectious disorders.

Measles seems once more to be gaining ground, 16 cases instead of 9 being returned.

Disorders connected with the respiratory organs are rapidly becoming both less general and fatal; thus, in the last three weeks, the respective numbers were 298, 223, and 193.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the deaths registered in the eleven districts amounted to 233; in the two previous weeks the numbers were 230 and 218. Thus the variation in the death rate during the last three weeks has been but slight.

The births again proved very numerous, no fewer than 367 having been registered.

On examining the causes of death we find that Scarlet Fever contributed heavily to swell the general total, 33 persons (the great majority of them probably being children) died from this disorder alone. Since the week ending February 6th we have not had occasion to record so many deaths from this cause. During the last three weeks only 53 cases of Scarlet Fever occurred among the paupers and hospital patients, but the deaths in the town generally amounted to 94. Now, inasmuch as our returns show that in the course of the present epidemic about 1 case in 7 proves fatal, the total number of seizures during the last three weeks probably did not fall short of about 700. If this is the case the disease must have proved more general among the better-to-do classes than among the actual paupers; and, consequently, among the better drained and more open quarters of the town than in the crowded alleys.

Both at Eccles and Old Trafford the weather was somewhat warmer than in the neighbourhood of London.

The most remarkable features in the meteorology of the week were the generally dry state of the atmosphere, and the very marked alternations of temperature. Thus, on one day at Old Trafford, the thermometer in the shade stood at 74·3°, and on another occasion fell to 33·4°

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								,, ,, 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN		
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..
Chicken-pox .....	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	4	1	5	..	1	..	..	1	..	..	..
Scarlatina .....	..	..	2	..	1	..	3	..	..	..	..	1	..	..	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	1	..	..	..	..	1	1	..	..	..	..	..	6	..
Croup .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	1	..	5	..	6	..	..	1	..	..	..	1	3
Dysentery .....	..	..	..	1	..	2	3	..	..	..	..	..	..	..	..
Continued Fever.....	2	..	2	..	..	*6	10	3	†5	..	..	2	2	6	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism .....	..	2	3	2	7	..	14	21	4	15	1	..	3	1	3
Neuralgic Affections .....	..	..	..	..	..	..	..	..	1	2	..	..	..	..	4
Constitutional Syphilis .....	..	..	..	..	..	..	..	8	..	13	1	..	..	..	2
Phthisis .....	..	1	..	2	4	..	7	5	1	28	2	3	4	1	1
Insanity .....	..	..	1	..	..	..	1	5	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	4	7	10	6	9	5	41	15	1	23	..	2	2	7	11
Pleurisy and Pneumonia....	..	..	2	..	..	..	2	3	..	3	..	..	1	..	..
Skin Diseases.....	..	1	2	..	..	..	3	11	..	22	1	..	..	4	13
Dyspepsia .....	..	1	..	..	6	2	9	..	..	24	..	3	1	4	12
Accidents and diseases not } classified..... }	32	8	16	14	4	16	90	33	37	277	..	7	6	56	19
TOTAL .....	38	22	39	25	41	33	198	105	51	408	6	19	19	86	70

\* 2 Typhus and 4 Febricula.      † Typhus.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILLIPS,  
(8) Dr. GEORGE REED,

(9) }  
(10) } Mr. G. E. WALKER,  
(11) } „ ALFRED GODSON,  
(12) }

(13) Mr. H. RUNCO  
(14) Dr. WHITEHE  
(15) Mr. W. GOLLA  
(16) „ J. TEALE,



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 23rd day of April, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
1,329 .....				477. ....			646. ...		508.	2650.....				Area in Statute Acres.		
70,967. ....				68,209. ...			44,850..		21739	24,448 .....				Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
17	18	19	20	21	22	23	24	25	26	27	28					
..	2	1	..	..	..	..	..	..	2	1	..	8	41	Small-pox .....	2	
..	1	..	..	..	..	..	..	..	..	..	..	3	7	Chicken-pox .....	..	
..	..	..	..	..	5	..	..	4	..	..	..	16	19	Measles .....	..	
1	..	3	..	1	..	..	..	..	4	2	..	17	14	Scarlatina .....	4	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	1	..	..	..	..	..	1	2	..	..	12	25	Whooping-cough ....	1	
..	..	..	..	..	..	..	..	..	..	..	..	1	1	Croup .....	..	
..	1	1	2	..	3	..	1	1	..	..	..	23	41	Diarrhoea .....	..	
..	..	1	..	..	..	..	..	..	..	1	..	5	1	Dysentery .....	..	
‡2	..	2	..	§1	§2	1	..	..	1	..	1	39	52	Continued Fever ....	2	
1	..	..	..	..	..	..	..	1	..	..	..	3	11	Erysipelas .....	..	
..	2	5	1	..	2	1	1	2	3	2	..	81	80	Rheumatism .....	..	
..	..	1	..	..	..	..	..	..	4	..	..	12	15	Neuralgic Affections ..	..	
..	1	3	..	..	..	..	1	1	..	1	3	35	35	Constitutional Syphilis	..	
..	..	4	..	..	..	..	1	1	3	2	2	66	82	Phthisis .....	3	
..	..	..	..	..	..	..	..	..	..	..	6	13	3	Insanity .....	..	
2	..	19	4	2	4	6	3	8	5	13	5	178	274	Bronchitis, Influenza, and Catarrh.....	7	
..	..	1	..	..	1	..	..	2	2	..	..	15	13	Pleurisy & Pneumonia.	1	
..	5	5	..	..	..	..	3	..	3	..	4	76	74	Skin Disease.....	..	
2	..	7	1	..	5	4	6	2	8	3	8	102	82	Dyspepsia .....	..	
7	5	120	..	6	14	4	9	38	4	43	31	819	741	Accidents and diseases not classified.....	17	
15	17	174	8	10	36	16	25	61	41	68	60	1524	1612	TOTAL.....	37	

‡ 1 Typhus and 1 Febricula.

§ Febricula.

Debited for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	1	..	..	..	..	1	..	..	..	2	2
Measles .....	..	1	..	..	..	..	..	..	2	..	..	3	11
Whooping-cough.....	1	1	..	..	..	1	..	..	..	..	2	5	9
Scarlatina .....	3	4	1	1	2	3	3	1	7	4	4	33	18
Diarrhœa .....	..	2	..	..	..	..	1	..	..	..	..	3	1
Fever .....	..	1	3	..	..	..	2	1	21	1	1	10	11
Diseases of the Lungs ..	7	4	2	3	..	8	1	11	2	7	2	36	52
Other causes.....	13	7	26	7	12	14	15	11	11	19	6	141	109
<b>TOTAL NO. OF DEATHS.</b>	24	20	33	11	14	26	22	14	23	31	15	233	213
<b>TOTAL NO. OF BIRTHS.</b>	48	40	18	20	21	39	55	32	22	47	25	367	340

c aged 2 years.

*Monthly Return of New Cases of Disease coming under Treatment.*

*In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.*

*At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.*  
Population in 1861, 390,815.

4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	TOTAL.	DISEASE.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	TOTAL.
12	5	8	25	.....Small-pox.....	30	34	46	110
11	12	17	40	..... Chicken-pox .....	16	6	7	29
26	35	22	83	..... Measles .....	60	26	17	103
28	23	28	79	.....Scarlatina.....	171	133	103	407
9	7	6	22	..... Diphtheria .....	3	6	1	10
80	75	79	234	.... Whooping-cough ....	85	100	72	257
4	1	2	7	.....Croup.....	3	1	4	8
397	517	560	1474	.....Diarrhoea.....	144	207	166	517
..	..	7	7	.....Dysentery.....	18	20	15	53
..	..	1	1	..... Cholera .....	..	..	..	..
13	17	18	48	.....Erysipelas.....	57	57	37	151
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
22	15	26	63	..... Insanity .....	35	26	53	114
1241	1062	995	3298	.. Bronchitis and Catarrh..	1615	1390	1251	4256
14	12	7	33	..... Pleurisy .....	75	70	73	218
29	26	32	87	..... Pneumonia .....			..	
5	5	6	16	.....Carbuncle.....	..	..	..	..
3691	3793	3365	10849	{ Accidents, and all other Diseases. }	4724	4754	4593	14071
5582	5605	5179	16366	..... TOTAL .....	7036	6830	6438	20304

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH:			Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MAC KERRETH Esq	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.							
Thelwall .....	3·202	..... 13							
Bowdon .....	2·416	..... 16							
Eccles .....	2·375	..... 15							
Royton .....	2·275	..... 17							
Castleton Moor	2·273	..... 17							
Old Trafford..	2·011	..... 13							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	475 ft.
<b>Barometer.</b>			INS.	INS.		INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			30·022	30·050		30·038	30·042	30·029	30·027
Highest .....			30·224	30·212		30·202	29·714	30·090	29·838
Lowest .....			29·804	29·794		29·764	29·299	29·666	29·414
Range .....			0·420	0·418		0·438	0·415	0·424	0·424
<b>Temperature.</b>									
Adopted Mean .....			52·1	53·6		53·8	52·7	52·6	51·6
Range for Week .....			38·0	40·6		38·0	39·2	36·0	34·4
Daily Range .....			21·5	28·1		24·4	25·5	23·2	21·0
Maximum in Shade .....			71·2	74·3		70·9	71·4	71·2	69·4
Minimum in Shade .....			33·2	33·7		32·9	32·2	35·2	35·0
Temperature of Dew Point .....			41·6	42·1		38·8	37·3	42·0	38·5
<b>Hygrometrical condition of the Atmosphere.</b>			GRS.	GRS.		GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0·608	0·650		0·568	0·562	0·675	0·610
Prevailing Winds .....				S, SE		SW, SE	SW, SE	SE, S	SW, NE
Rain .....				0·045		0·068	0·200	0·021	0·160

April 23, 1864.

JOHN HEAP, *Royton, Oldham.*

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, APRIL 30, 1864.

[No. 196.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

There were 1,421 new cases of disease in connection with the public Charitable Institutions in the week ending April 30th: in the preceding week the total amounted to 1,524, and in the corresponding one of last year to 1,570.

Scarlet Fever once more proved very general, 31 persons having suffered from its attacks: 7 of these cases occurred among the patients of the Ardwick Poor Law Union, and 6 more among those of the Salford Dispensary. In the previous week there were only 17 cases of this disease.

Small-pox, also, appears to be once more gaining ground—14 instead of 8 cases being recorded in our return.

Of 33 seizures from Continued Fever 8 proved examples of Typhus.

The effects of the continued prevalence of genial weather is seen in the steady decrease of the affections connected with the respiratory organs. The seizures under diseases of this order amounted last week to 187, instead of 193 and 223, the respective numbers in our two preceding returns.

Whooping Cough, a disease much influenced by alternations of temperature, proved less prevalent than during many preceding weeks.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week only 191 deaths were registered in the eleven districts. Just eighteen months have elapsed since the mortality proved so light as at present. The time to which we refer was the week ending November 1st, 1862, when the deaths did not exceed 175.

The births, likewise, were remarkably numerous, 363 being entered,—nearly doubling the deaths. Of the latter 27 are ascribed to Scarlet Fever. The mortality from all the remaining zymotic diseases is comparatively trifling, viz., 1 from Small-pox, 2 from Measles, 4 from Fever, and 5 from Whooping Cough.

In London, according to the last return of the Registrar General, the deaths, for the first time during the present year, were somewhat below the average for the season.

The mean temperature of the air was, at Greenwich,  $47.6^{\circ}$ , at the Royal Infirmary it was  $47.9^{\circ}$ , at Old Trafford  $48.7^{\circ}$ , and at Eccles  $47.3^{\circ}$ ; thus the weather in this neighbourhood was fully as mild as in London. It was, however (as tested by meteorological observations), considerably more trying here than there. Thus the range for the week, which at Greenwich did not exceed  $24.7^{\circ}$ , at Old Trafford amounted to  $39.2^{\circ}$ , and at Royton to  $40.8^{\circ}$ ; at some of the other stations (Bowdon) it was  $25.9^{\circ}$ , and at Eccles  $28.4^{\circ}$ . At Greenwich the highest temperature in the shade was  $62.4^{\circ}$ , at Old Trafford it was  $72^{\circ}$  and at Royton  $73^{\circ}$ .

Neither in the neighbourhood of London or here was any rain measured.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 FALL MALL, MANCHESTER.



# MANCHESTER AND SALE

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC

### New Cases of Disease coming under Treatment

MANCHESTER.																	
Area in Statute Acres .....		Manchester Township 1,645 .....															
Population in 1861 .....		" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City and	Gaol
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Children's Hospital.		
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16
Small-pox .....	..	..	..	..	2	..	2	1	3	..	..	..	1	2	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	2	..	2	..	1	..	..	..	..	..	..	..	..
Scarlatina .....	..	1	..	..	1	5	7	..	..	..	..	1	2	2	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	1	..	..	1	..	..	2	1	..	..	..	..	..	3	2	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	1	..	..	5	..	6	..	..	3	..	..	1	..	5	..	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Continued Fever .....	..	..	*2	1	..	†2	5	7	†1	..	†1	2	..	4	..	..	..
Erysipelas .....	..	1	1	..	..	..	2	..	..	..	..	..	..	..	..	..	..
Rheumatism .....	1	..	2	1	6	..	10	5	1	20	3	4	3	1	..	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	1	1	2	..	1	..	4	..	..
Constitutional Syphilis .....	..	..	2	..	..	..	2	12	..	16	..	..	..	..	1	..	..
Phthisis .....	..	1	..	..	4	1	6	4	..	30	1	4	4	..	3	..	..
Insanity .....	1	1	..	..	..	1	3	5	..	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	..	6	6	3	7	5	27	5	1	28	..	1	7	9	18	..	..
Pleurisy and Pneumonia .....	..	1	..	..	1	..	2	4	..	5	1	2	..	2	1	..	..
Skin Diseases .....	2	..	..	..	..	..	2	9	..	18	1	..	1	7	11	..	..
Dyspepsia .....	1	2	..	2	6	..	11	..	..	29	..	1	1	2	12	1	..
Accidents and diseases not classified .....	28	11	17	10	4	10	80	40	33	234	4	7	6	38	23	3	..
TOTAL .....	34	25	30	18	38	24	169	93	41	384	13	22	27	71	81	7	..

\* 1 Typhus and 1 Febricula.

† Typhus.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.  
 (2) " J. BROADBENT,  
 (3) " JOHN ARMSTRONG,  
 (4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
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 (7) Mr. A. PHILLIPS,  
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- (9) }  
 (10) } Mr. G. E. WALKER,  
 (11) } " ALFRED GOLSON,  
 (12) }

- (13) Mr. H. RUNCORN,  
 (14) Dr. WHITEHEAD,  
 (15) Mr. W. GOLLAN,  
 (16) " J. TEALE,



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 30th day of April, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.		PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477 .....			646 ..		508.		2650 .....			Area in Statute Acres.		
70,967. ....				68,209. ..			44,850 ..		21739		24,448 .....			Population in 1861.		
LAW RICT		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work house.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23	24	25	26	27	28					
1	..	†2	..	..	..	..	..	..	2	..	..	14	40	Small-pox .....	1	
..	..	..	..	..	..	..	..	..	..	..	5	5	6	Chicken-pox .....	..	
..	..	3	..	..	..	3	1	..	1	..	..	11	22	Measles .....	1	
1	..	6	..	..	1	..	..	1	7	..	..	31	26	Scarlatina .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	8	15	Whooping-cough .....	..	
..	..	..	..	..	..	..	..	..	1	..	..	1	2	Croup .....	..	
..	1	1	4	2	2	..	1	1	2	..	..	31	46	Diarrhoea .....	..	
..	..	..	..	1	..	..	..	..	..	..	1	4	9	Dysentery .....	..	
†2	3	3	..	§1	..	1	..	..	1	†1	..	33	67	Continued Fever .....	3	
1	1	2	..	..	..	..	..	..	..	..	..	6	11	Erysipelas .....	..	
..	1	10	2	..	3	..	2	1	2	2	..	71	93	Rheumatism .....	..	
..	..	4	..	..	2	..	..	1	2	..	..	19	26	Neuralgic Affections ..	..	
1	..	..	..	..	..	1	1	2	1	..	5	43	29	Constitutional Syphilis	1	
1	..	8	..	1	..	1	1	1	1	1	3	70	51	Phthisis .....	6	
..	3	..	..	..	..	..	..	1	..	..	3	15	7	Insanity .....	..	
3	3	14	4	5	5	4	4	5	5	8	7	168	231	Bronchitis, Influenza, and Catarrh .....	10	
..	..	..	..	..	..	..	..	..	2	..	..	19	19	Pleurisy & Pneumonia.	..	
1	8	1	..	..	..	..	..	1	3	..	2	65	67	Skin Disease.....	..	
2	..	4	1	2	..	1	5	2	4	2	3	84	79	Dyspepsia .....	..	
12	6	107	..	2	10	2	7	30	1	32	36	723	723	Accidents and diseases not classified.....	23	
25	26	165	11	14	23	13	22	46	38	46	65	1421	1570	TOTAL.....	47	

† Not vaccinated.

§ Febricula.

ebied for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Charlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	..	01	..	..	..	..	1	4
Measles.....	..	..	..	..	..	..	..	..	..	..	..	2	5
Whooping-cough.....	..	..	..	2	..	1	1	1	..	1	..	5	10
Scarlatina.....	3	4	..	..	..	4	2	4	2	2	3	27	18
Diarrhœa.....	..	1	..	1	..	1	..	..	..	..	..	3	11
Fever.....	..	..	1	a1	..	..	..	a1	1	..	..	4	3
Diseases of the Lungs ..	9	1	..	5	..	3	3	..	5	8	..	39	56
Other causes.....	9	14	21	7	13	011	1	7	7	15	5	110	124
TOTAL NO. OF DEATHS.	21	23	22	16	13	25	8	13	16	26	8	191	231
TOTAL NO. OF BIRTHS.	58	43	15	14	17	56	20	25	25	62	28	363	297

a Gastric.

b 1 Inquest.

c Not vaccinated.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	TOTAL.	DISEASE.	4 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	TOTAL.
12	5	8	25	.....Small-pox.....	30	34	46	110
11	12	17	40	..... Chicken-pox .....	16	6	7	29
26	35	22	83	..... Measles .....	60	26	17	103
23	23	23	79	.....Scarlatina.....	171	133	103	407
9	7	6	22	..... Diphtheria .....	3	6	1	10
80	75	79	234	.... Whooping-cough ....	85	100	72	257
4	1	2	7	.....Croup.....	3	1	4	8
397	517	560	1474	.....Diarrhœa.....	144	207	166	517
..	..	7	7	.....Dysentery.....	18	20	15	53
..	..	1	1	..... Cholera .....	..	..	..	..
13	17	18	48	.....Erysipelas.....	57	57	37	151
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
22	15	26	63	..... Insanity .....	35	26	53	114
1241	1062	995	3298	..... Bronchitis and Catarrh..	1615	1390	1251	4256
14	12	7	33	..... Pleurisy .....	75	70	73	218
29	26	32	87	..... Pneumonia .....				
5	5	6	16	..... Carbuncle .....	..	..	..	..
3691	3793	3365	10849	{ Accidents, and all other Diseases. }	4724	4754	4593	14071
5582	5605	5179	16366	..... TOTAL .....	7036	6830	6438	20304

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN APRIL :			Royal Infirmary, Dr. REED.		Old Trafford, G.V. VERNON, Esq.		Thelwall, J. ATKINSON, Esq.		Eccles, T. MACKERETH Esq		Royton, J. HEAP, Esq.		Bowdon, L. W. Reynolds Esq		Castl ton Moor, Rev. J. C. BATES.	
Inches.	Wet Days.															
Eccles.....	1.722	..... 12														
Bowdon .. ..	1.625	..... 12														
Old Trafford..	1.602	..... 9														
Castleton Moor	1.417	..... 12														
Royton .....	1.260	..... 10														
Height of barometer cistern above sea level			130 ft.	123 ft			96 ft.	127 ft.	522 ft.	221 ft.	475 ft.					
Barometer.			INS.	INS.				INS.	INS.	INS.	INS.					
Mean @ 32° F., and reduced to sea level			30.197	30.20				30.188	30.179	30.182	30.186					
Highest.....		Unreduced {	30.200	30.19				30.184	29.670	30.100	29.826					
Lowest.....			30.062	30.047				30.006	29.518	29.950	29.660					
Range .....			0.138	0.148				0.178	0.152	0.150	0.166					
Temperature.																
Adopted Mean .....			47.9	48.7				47.3	45.7	46.9	45.8					
Range for Week .....			30.0	39.2				28.4	40.8	25.9	27.5					
Daily Range .....			20.7	26.1				19.3	2.1	19.1	17.8					
Maximum in Shade .....			67.7	72.0				60.5	73.0	60.9	60.5					
Minimum in Shade .....			37.0	32.8				32.1	32.2	35.0	33.0					
Temperature of Dew Point .....			41.1	41.0				37.7	38.0	39.7	37.8					
Hygrometrical condition of the Atmosphere			GRS.	GRS.				GRS.	GRS.	GRS.	GRS.					
Degree of Humidity (Saturation—1,000)			0.778	0.748				0.763	0.744	0.766	0.737					
Prevailing Winds .....				NE				NE	NE	NE	NE					
Rain .....				0.000				0.000	0.000	0.005	0.000					

April 30, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.





# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, MAY 7, 1864.

[No. 197.]

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 7th of May 1,311 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week the number amounted to 1,421, and in the corresponding one of last year to 1,577. Thus the public health, as estimated by the amount of sickness amongst the poor, may be pronounced unusually favourable; in fact the seizures in the course of the week were less numerous than in any preceding week since that ending on the 30th of May, 1863.

There were 21 new cases of Scarlet Fever, 10 fewer than in our previous return.

The cases of Continued Fever amounted to 32, of which 3 proved examples of Typhus; 2 of these were admitted as in-patients of the Royal Infirmary.

Though the weather was genial,—so much so, indeed, that the seizures from Bronchitis and kindred chest affections continued to decrease,—still it was not sufficiently hot to occasion Diarrhœa and Dysentery; thus the new cases in this column fell from 35 to 24.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 214 deaths were registered in the eleven districts. Of this number 65 arose from diseases connected with the lungs.

During the three last weeks the mortality from Scarlet Fever has been steadily decreasing; thus the respective numbers were 33, 27, and 22.

There were 4 deaths from Small pox. In the previous week there was only 1. It is important that we should bear in mind that last year, as the weather became warmer, so did the mortality from this disorder proportionately increase.

In London, according to the last return of the Registrar General, the state of the public health was far more favourable than a few weeks ago. That return contains an analysis of the water supplied by several of the chief metropolitan companies, and the Manchester water supply. The result of that analysis tells, as usual, very much in favour of the latter. Thus, while the amount of foreign matter in solution in the London waters varied in amount from 23 grains to 17 in the gallon, that in the Manchester water did not exceed 3.33 grains. This impure condition of the water in the metropolis would appear to account for the very much greater extent to which Diarrhœa has prevailed there than it has in these districts. Thus, in the month of March, there were only 166 cases of this disorder in Manchester and Salford, while there were no fewer than 560 in the parish of St. Mary-lebone, alone.

At the Royal Observatory, Greenwich, the mean temperature of the air was 52.1°; at the warmest of the stations in this neighbourhood (Old Trafford) in was 50°, at Eccles 49.4°, and at the Royal Infirmary 48.3°. At London the thermometer never fell below 42.8°, whereas at one of these stations (Royton) it was as low as 29.5°.

The difference in the amount of rain which fell in the two districts was considerable; thus, at Greenwich, less than one inch was measured, at Old Trafford 2½ inches.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 FALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN			City Gaol.
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Children's Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	..	..	..	..	..	1	..	..	2	..	..	3	..	..
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..
Measles .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	1	1	..	1	3	..	..	..	..	1	1	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	2	..	2	..	..	..	..	..	..	3	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	3	..	1	4	1	9	..	..	..	..	..	..	2	..	1
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	..	..	*3	1	1	2	7	5	‡2	..	..	†2	1	6	..	..
Erysipelas .....	..	..	..	1	1	..	2	..	..	2	1	..	1	..	..	..
Rheumatism .....	1	3	3	2	7	1	17	6	1	17	..	..	4	..	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	..	3	2	1	..	..	..	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	4	..	11	..	..	..	..	2	1
Phthisis .....	..	..	1	1	3	..	5	1	1	34	3	..	3	..	7	1
Insanity .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	1	6	3	6	5	2	23	5	..	23	7	2	4	8	8	2
Pleurisy and Pneumonia.....	..	..	..	..	1	..	1	1	..	3	..	2	..	..	..	..
Skin Diseases.....	..	..	1	..	..	..	1	10	..	25	1	..	..	4	4	..
Dyspepsia .....	..	1	1	1	3	2	8	..	2	23	..	..	1	4	9	2
Accidents and diseases not classified.....	23	5	13	6	6	7	60	58	19	194	4	2	4	50	28	2
TOTAL .....	25	18	26	20	31	17	140	92	28	334	19	9	19	80	61	9

\* 1 Typhus

‡ Typhus.

† Febricula.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.  
 (2) „ J. BROADBENT,  
 (3) „ JOHN ARMSTRONG,  
 (4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
 (6) „ LEDWARD,  
 (7) Mr. A. PHILIPPS,  
 (8) Dr. GEORGE REED,

- (9) }  
 (10) } Mr. G. E. WALKER,  
 (11) } „ ALFRED GOLSON,  
 (12) }

- (13) Mr. H. RUNCORN,  
 (14) Dr. WHITEHEAD,  
 (15) Mr. W. GOLLAND,  
 (16) „ J. TEALE,



ITARY ASSOCIATION.

OF MANCHESTER AND ADJOINING DISTRICTS.  
ending the 7th day of May, 1864

SHELDON.			HULME.			CHORLTON.		ARD-WICK.		PENDLETON AND PENDLEBURY.				
329 .....			.... 477. ....			... 646. ...		508.		..... 2650. ....			Area in Statute Acres.	
967. ....			.. 68,209. ..			.. 44,850. ..		21739		..... 24,148. ....			Population in 1861.	
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse	Total.	Corresponding Week last Year.	DISEASES.	
8	19	20	21	22	23	24	25	26	27	28				
2	1	..	..	..	..	..	..	..	..	1	10	37	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	2	1	Chicken-pox .....	..
..	..	..	..	..	2	3	7	..	..	..	13	23	Measles .....	..
..	3	..	4	..	1	..	2	6	..	..	21	44	Scarlatina .....	2
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	7	18	Whooping-cough ....	..
..	..	..	..	..	..	..	..	1	..	..	1	..	Croup .....	1
..	3	2	1	2	1	..	2	..	..	..	23	40	Diarrhœa .....	1
..	..	..	..	..	..	..	..	..	1	..	1	2	Dysentery .....	..
1	..	..	..	..	..	1	..	3	†1	1	32	45	Continued Fever ....	6
..	..	..	..	..	..	..	..	..	..	..	6	7	Erysipelas .....	..
..	5	2	3	3	1	2	3	4	2	3	73	89	Rheumatism .....	..
..	3	..	..	..	..	..	1	3	..	..	14	27	Neuralgic Affections ..	..
..	4	..	..	..	..	..	2	..	..	9	34	25	Constitutional Syphilis	..
..	8	..	..	..	1	1	1	6	1	1	76	58	Phthisis .....	6
7	..	..	..	..	..	1	..	..	..	2	11	9	Insanity .....	1
1	20	3	4	5	4	6	6	7	7	3	155	228	Bronchitis, Influenza, and Catarrh .....	7
..	2	..	..	..	..	..	1	3	1	1	15	30	Pleurisy & Pneumonia.	4
2	7	1	..	..	..	..	1	6	1	17	80	73	Skin Disease.....	..
1	7	1	..	..	..	1	1	5	3	3	73	64	Dyspeptic .....	..
1	93	..	5	10	2	10	34	1	42	34	664	737	Accidents and diseases not classified.....	19
3	156	9	17	20	12	25	61	45	59	75	1311	1577	TOTAL.....	47

† Typhoid.

for the annexed Returns.

Mr. SAMUEL BOOTH,  
Mr. M. O. LARMUTH,  
J. O. BRADBURY,  
W. B. SITT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
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(25) Mr. JOHN RAYNER,  
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# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Lipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corre pondi week last year.
Small Pox.....	..	..	..	1	51	..	..	..	e1	..	g1	4	4
Measles .....	..	..	..	..	..	..	..	1	..	1	..	1	6
Whooping-cough.....	..	..	..	..	1	..	..	1	..	1	..	3	3
Scarlatina.....	3	2	..	..	1	3	2	1	5	3	2	22	22
Diarrhœa .....	..	1	..	..	..	..	..	1	..	..	..	2	11
Fever .....	..	..	a4	..	..	..	a1	1	f1	..	..	7	6
Diseases of the Lungs ..	12	13	3	6	..	6	2	..	3	14	6	65	58
Other causes.....	13	5	12	8	13	c9	d11	8	15	15	1	110	127
<b>TOTAL NO. OF DEATHS.</b>	<b>28</b>	<b>21</b>	<b>19</b>	<b>15</b>	<b>16</b>	<b>18</b>	<b>16</b>	<b>12</b>	<b>25</b>	<b>34</b>	<b>10</b>	<b>214</b>	<b>237</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>38</b>	<b>37</b>	<b>20</b>	<b>18</b>	<b>13</b>	<b>30</b>	<b>43</b>	<b>18</b>	<b>17</b>	<b>58</b>	<b>19</b>	<b>311</b>	<b>325</b>

a Typhus. b Not vaccinated. c 2 Inquests. d 1 Inquest. e Aged 35, after vaccination. f Gastric, aged 5 years. g Vaccinated, aged 26 years.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

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..	..	7	7	..... Dysentery.....	18	20	15	53
..	..	1	1	..... Cholera .....	..	..	..	..
13	17	13	43	..... Erysipelas.....	57	57	37	151
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
22	15	26	63	..... Insanity .....	35	26	53	114
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29	23	32	87	..... Pneumonia .....	..	..	..	..
5	5	6	16	..... Carbuncle.....	..	..	..	..
3691	3793	3365	10849	{ Accidents, and all other Diseases. }	4724	4754	4593	14071
5582	5605	5179	16366	..... TOTAL .....	7036	6830	6438	20304

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN APRIL :									
	Inches.	Wet Days.	Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Thelwall, J. ATKINSON, Esq.	Eccles, T. MACKERRETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castl- eton Moor, Rev. J. C. BATES.
Eccles.....	1.722	12							
Bowdon ..	1.625	12							
Old Trafford..	1.602	9							
Castleton Moor	1.417	12							
Royton .....	1.260	10							
Height of barometer cistern above sea level			130 ft.	123 ft	96 ft.	127 ft.	522 ft.	221 ft.	475 ft.
<b>Barometer.</b>			INS.	INS.		INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			29.892	29.871		29.878	29.856	29.872	29.852
Highest.....		Unreduced }	30.000	30.116		30.074	29.640	30.010	29.710
Lowest .....			29.726	29.663		29.662	29.233	29.584	29.300
Range .....			0.274	0.453		0.412	0.402	0.426	0.410
<b>Temperature.</b>					NO RETURN.				
Adopted Mean .....			48.3	50.0		49.4	48.9	49.8	47.7
Range for Week .....			19.6	31.0		30.1	33.5	25.1	26.0
Daily Range .....			10.5	16.8		14.2	16.7	12.6	12.2
Maximum in Shade .....			56.8	63.0		61.3	63.0	59.9	58.1
Minimum in Shade .....			37.2	32.0		31.2	29.5	34.8	32.1
Temperature of Dew Point .....			43.5	45.5		46.0	44.6	45.2	43.6
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.		GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)			0.839	0.812		0.892	0.853	0.848	0.866
Prevailing Winds .....				SE, SW		NW, SE	NW, SW	NW, SW	NW, SW
Rain .....				2.480		2.274	2.775	1.732	2.454

May 7, 1864.

JOHN HEAP, Royton, Oldham.

Powison and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, MAY 14, 1864.

[No. 198.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 14th inst., 1,237 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week the number was 1,237, and in the corresponding one of last year 1,444. Thus the disease returns appear more favourable than they usually are at this period of the year.

There were only 11 new cases of Scarlet Fever, in the previous week there were 21. Of the 11 cases 7 occurred among the patients of the Salford Dispensary, and 3 amongst those of the Ardwick Poor Law Union. In the whole of the Manchester Township not a single case appears to have occurred among that particular class of persons to whom our returns exclusively refer.

There were 10 seizures from Small-pox, of which 5 were met with in various parts of Salford and 2 in Ardwick.

Of 35 cases of Continued Fever 3 proved examples of Typhus and 1 of Typhoid Fever.

Bronchitis and kindred affections of the chest are still continuing to decrease, the total number not exceeding 133, or 37 fewer than in the previous week.

Of 19 cases of Skin Disease, observed at the Salford Dispensary, 16 are referred to as examples of Itch.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The deaths last week amounted to 215, or one more than in our preceding return. No fewer than 26 of them were due to Scarlet Fever. It is singular that, during several weeks, that proportion which in the case of the zymotic diseases may usually be observed between the numbers in the disease and death returns has not been maintained, consequently it must be inferred that the disorder principally prevails in a class of the population who are not dependent on charitable institutions for their treatment in time of sickness.

There were only 3 deaths from Diarrhœa; thus it is evident that this affection has not yet established itself with that degree of severity which it usually manifests on the advance of summer.

There were 52 deaths from various forms of chest affections.

The mean temperature of the air in the week was, at Old Trafford, 52·7°, and at Eccles 52·8°. North-easterly winds very generally prevailed. No rain was measured.

**JOHN ED. MORGAN. M.B., M.A., Hon. Sec.**

COMMITTEE ROOMS,

33 PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....								Manchester Township 1,645 .....								
Population in 1861 .....								" " 185,050 .....								
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	..	1	..	..	..	1	..	..	..	..	..	1	..	..	
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	
Scarlatina .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	1	..	..	..	..	..	1	..	..	..	..	..	..	3	1	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	..	..	..	1	5	..	6	..	..	..	..	..	..	5	3	
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	2	..	
Continued Fever.....	2	*2	1	1	..	1	7	7	..	†1	..	3	..	4	..	
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Rheumatism .....	1	..	1	..	4	1	7	7	3	13	..	2	..	..	..	
Neuralgic Affections .....	..	..	..	..	..	..	..	..	1	4	1	..	..	..	..	
Constitutional Syphilis .....	..	1	..	..	..	..	1	6	..	6	2	..	..	1	2	
Phthisis .....	..	..	1	..	2	1	4	4	..	9	..	2	3	1	4	
Insanity .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	2	8	5	..	4	4	23	5	..	30	2	1	5	3	6	
Pleurisy and Pneumonia.....	1	..	..	..	..	..	1	..	3	1	..	1	1	..	..	
Skin Diseases.....	..	..	1	..	..	..	1	9	..	15	..	..	..	3	5	
Dyspepsia .....	1	1	..	1	3	..	6	3	..	38	2	..	1	2	6	
Accidents and diseases not classified.....	22	5	9	6	7	16	65	47	30	212	8	4	7	35	4	
TOTAL .....	30	17	19	9	26	24	125	90	37	329	15	13	18	59	31	1

\* Typhus                      † Typhoid.

(1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. A. PHILIPPS,

(8) Dr. GEORGE REED,

(9)

(10) } Mr. G. E. WALKER,

(11) } „ ALFRED GODSON,

(12) }

(13) Mr. H. RUNCOF

(14) Dr. WHITEHEAD

(15) Mr. W. GOLLAN

(16) „ J. TEALE,



# ANITARY ASSOCIATION.

IS OF MANCHESTER AND ADJOINING DISTRICTS.

week ending the 14th day of May, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					
1,329 .....				..... 477.....			... 646...		508.	..... 2650.....			Area in Statute Acres.		
70,967. ....				.. 68,209. ...			... 44,850..		21739	..... 24,448 .....			Population in 1861.		
W CT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	2	..	..	..	..	..	..	2	..	1	10	37	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	1	1	3	Chicken-pox .....	..
..	..	2	..	..	..	2	..	6	..	..	..	11	24	Measles .....	..
..	..	7	..	..	..	..	..	..	3	1	..	11	34	Scarlatina .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	1	..	..	..	..	1	..	..	7	9	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
..	..	1	1	1	2	..	..	3	..	1	1	24	32	Diarrhoea .....	..
..	..	..	..	..	..	..	..	..	..	..	1	4	3	Dysentery .....	..
1	1	3	..	§1	§2	2	..	..	1	*1	1	35	40	Continued Fever ....	2
..	..	1	..	..	..	..	..	1	..	..	..	3	2	Erysipelas .....	1
..	..	5	1	3	1	..	2	4	2	1	3	54	82	Rheumatism .....	..
..	..	2	..	..	..	..	..	1	..	..	..	9	17	Neuralgic Affections ..	1
1	..	3	..	..	..	..	..	..	..	..	5	27	26	Constitutional Syphilis	1
1	..	2	..	..	1	1	..	1	..	..	..	34	62	Phthisis .....	8
..	..	..	..	..	1	..	..	..	..	..	4	6	4	Insanity .....	1
5	1	7	4	2	6	5	1	4	4	4	3	123	220	Bronchitis, Influenza, and Catarrh .....	6
..	..	2	..	..	..	..	..	1	..	..	..	10	19	Pleurisy & Pneumonia.	2
..	..	19	..	..	1	..	3	5	2	..	19	82	75	Skin Disease.....	..
1	..	6	1	..	1	2	3	4	3	2	3	83	83	Dyspepsia .....	..
..	4	123	..	6	9	2	5	32	6	35	47	698	672	Accidents and diseases not classified.....	18
9	7	185	7	14	24	14	14	62	24	46	89	1237	1444	TOTAL.....	43

‡ Vaccinated.

§ Febricula.

|| 16 cases of Itch

btended for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L.WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	1	..	..	..	..	1	4
Measles .....	..	..	..	..	..	..	1	..	1	5	..	7	15
Whooping-cough.....	3	1	..	..	..	1	1	1	..	1	..	8	11
Scarlatina .....	2	1	..	2	4	8	2	1	1	1	4	26	21
Diarrhoea .....	..	..	..	..	..	..	2	..	1	..	..	3	1
Fever .....	..	..	5	..	..	..	1	..	d1	d1	d1	9	11
Diseases of the Lungs ..	10	5	3	3	..	12	2	..	4	10	3	52	64
Other causes.....	14	7	17	4	16	a6	16	4	6	16	3	109	162
TOTAL NO. OF DEATHS.	29	14	25	9	20	27	26	6	14	34	11	215	289
TOTAL NO. OF BIRTHS.	48	29	20	17	23	37	26	21	35	55	23	334	312

a 1 Inquest. b aged 4 years, Remittent. c Typhoid d Aged 6 years, Rheumatic.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL.	DISEASE.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL
5	8	6	19	..... Small-pox.....	34	46	51	131
12	17	15	44	..... Chicken-pox .....	6	7	11	24
35	22	16	73	..... Measles .....	26	17	57	100
23	28	35	86	..... Scarlatina.....	133	103	108	344
7	6	3	16	..... Diphtheria .....	6	1	1	8
75	79	102	256	.... Whooping-cough ....	100	72	71	243
1	2	6	9	..... Croup.....	1	4	6	11
517	560	595	1672	..... Diarrhoea .....	207	166	150	523
..	7	4	11	..... Dysentery.....	20	15	15	50
..	1	..	1	..... Cholera .....	..	..	..	..
17	18	23	58	..... Erysipelas.....	57	37	23	117
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
..	26	27	68	..... Insanity .....	26	53	67	146
1062	995	1169	5226	. Bronchitis and Catarrh..	1390	1251	1109	3750
12	7	18	37	..... Pleurisy .....	70	73	84	227
26	32	39	97	..... Pneumonia .....	..	..	..	..
5	6	8	19	..... Carbuncle.....	..	..	..	..
3793	3365	4914	12072	{ Accidents, and all other Diseases. }	4754	4593	5380	15227
5605	5179	6980	17764	..... TOTAL .....	6330	6438	7633	20901

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN APRIL :			Royal Infirmary, Dr. REED.		Old Trafford, G. V. VERNON, Esq.		Thelwall, J. ATKINSON, Esq.		Eccles, T. MACKERRETH Esq.		Royton, J. HEAP, Esq.		Bowdon, L. W. Reynolds Esq.		Castleton Moor, Rev. J. C. BATES.	
Inches. Wet Days.																
Eccles.....	1.722	12														
Bowdon .....	1.625	12														
Old Trafford..	1.602	9														
Castleton Moor	1.417	12														
Royton .....	1.260	10														
Height of barometer cistern above sea level			130 ft.		123 ft		96 ft.		127 ft.		522 ft.		221 ft.		475 ft.	
<b>Barometer.</b>			INS.		INS.				INS.		INS.				INS.	
Mean @ 32° F., and reduced to sea level			29.982		29.985				29.962		29.967				29.976	
Highest.....			30.130		30.125				30.114		29.659				29.804	
Lowest .....			29.674		29.652				29.616		29.147				29.274	
Range .....			0.456		0.473				0.498		0.512				0.530	
<b>Temperature.</b>																
Adopted Mean .....			51.6		52.7				52.8		50.5				50.1	
Range for Week .....			23.8		35.0				33.0		37.0				29.7	
Daily Range.....			18.6		21.8				20.2		22.3				19.2	
Maximum in Shade .....			65.6		73.0				70.5		73.0				68.3	
Minimum in Shade .....			41.8		38.0				37.5		36.0				38.6	
Temperature of Dew Point .....			42.0		42.1				40.6		40.9				39.2	
<b>Hygrometrical condition of the Atmosphere.</b>																
Degree of Humidity (Saturation—1,000)			GRS. 0.695		GRS. 0.675				GRS. 0.643		GRS. 0.695				GRS. 0.665	
Prevailing Winds .....					NE				NE		NE				NE	
Rain .....					0.000				0.000		0.000				0.000	

May 14, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.





# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

[VOL. IV.] WEEK ENDING SATURDAY, MAY 21, 1864. [No. 199.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

There were 1,119 new cases of disease in connection with the public Charitable Institutions and Poor Law Unions in the week terminating on the 21st of May. This number is below what might be expected at this season of the year. Inasmuch, however, as the return refers to Whit-week—a general holiday season—when the applications for medical relief are invariably less numerous, it is difficult to estimate what really was the state of the public health.

One disease (Diarrhœa), which from the high temperature maintained during the week might naturally be expected to prevail, proved by no means general: there were 40 cases. In the preceding week the number was 28, and in the corresponding one of last year 43. As, however, in the case of Bronchitis, a certain continuance of cold weather appears needed for the developing of the disorder in any degree of intensity, so it is in respect to Diarrhœa and Dysentery,—a few hot days not being sufficient to excite it.

There were 13 new cases of Scarlet Fever, 3 of which occurred among the patients of St. Mary's Hospital, and 3 more among those of the Salford Dispensary.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 232 deaths were registered in the eleven districts, exactly the same number as that returned in the corresponding week of last year: 25 of them were due to Scarlet Fever. Here we again see what was stated in our last summary—that the proportion usually observed between the returns of disease and of death have not of late, in respect to this disease, been maintained. Thus, in the course of the last fortnight, the number of seizures have not exceeded 24, while 51 deaths have been registered. The disease, therefore, would still appear more prevalent among the better-to-do classes than among the crowded streets and alleys inhabited by the poor.

In London, according to the last report of the Registrar General, the deaths exceeded the estimated amount by 178; only 14 of them, however, arose from Diarrhœa, whereas in the three previous weeks the respective numbers were 20, 18, and 16.

At the Royal Observatory, Greenwich, the mean temperature of the air was  $61.8^{\circ}$ ; in this neighbourhood the heat was considerably more intense. Thus, at Eccles, it was  $65.7^{\circ}$ , at Old Trafford  $64.4^{\circ}$ , at the Infirmary  $63.6^{\circ}$ . At Greenwich the thermometer never rose in the shade above  $80.0^{\circ}$ , at Old Trafford it was  $86.4^{\circ}$ .

At some of the stations the air was remarkably dry; thus, at Eccles, it was 57 (complete saturation being represented by 100), at Castleton Moor 64, and at the Infirmary 67.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33 PALL MALL, MANCHESTER.



# MANCHESTER AND SAL

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC *New Cases of Disease coming under Treatment*

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	2	..	..	..	..	..	2	..	..	..	..	1	..	1	..
Chicken-pox .....	1	..	..	..	..	..	1	..	..	..	..	..	..	2	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Scarlatina .....	..	1	2	..	..	..	3	..	..	..	..	..	1	3	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	3	1	..	2	..	6	3	..	5	..	..	..	3	1
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Continued Fever.....	..	..	..	..	..	*1	1	6	*1	..	..	2	1	10	..
Erysipelas .....	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..
Rheumatism .....	..	2	1	..	2	..	5	1	1	12	..	1	2	..	3
Neuralgic Affections .....	..	..	..	..	..	..	..	..	1	2	1	..	..	..	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	8	..	4	..	..	..	..	..
Phthisis .....	..	..	..	..	1	..	1	4	1	14	2	..	4	..	3
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	5	2	1	4	3	16	4	..	26	2	2	2	4	4
Pleurisy and Pneumonia....	..	..	1	..	1	..	2	2	2	3	..	..	2	..	..
Skin Diseases.....	..	..	2	..	..	1	3	12	..	3	..	..	..	2	5
Dyspepsia .....	..	..	..	..	3	..	3	6	..	34	2	1	1	2	4
Accidents and diseases not } classified..... }	13	5	6	4	3	6	37	28	37	253	6	4	7	25	5
TOTAL .....	17	16	15	5	16	12	81	76	43	356	13	11	20	59	27

\* Typhus

† Febricula.

*Medical Officers to whom the Association*

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

- (9) }  
(10) } Mr. G. E. WALKER,  
(11) } „ ALFRED GODSON,  
(12) }

- (13) Mr. H. RUNCO  
(14) Dr. WHITEHE  
(15) Mr. W. GOLLA  
(16) „ J. TEALE,



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 21st day of May, 1864

SALFORD.				HULME.			CHORLTON.		ARD-WICK	PENDLETON AND PENDLEBURY.					
1,329 .....				477. ....			646. ....		508.	2650.....			Area in Statute Acres.		
70,967. ....				68,209. ....			44,850. ....		21739	24,448 .....			Population in 1861.		
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28				
..	..	1	..	..	..	..	1	..	..	1	2	9	42	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	3	4	Chicken-pox .....	..
..	..	..	..	..	1	2	1	5	..	..	..	10	26	Measles .....	..
..	..	3	..	1	..	..	..	1	1	..	..	13	28	Scarlatina .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	1	5	24	Whooping-cough .....	..
..	..	..	..	..	..	..	..	..	1	..	..	1	..	Croup .....	..
..	1	1	3	2	2	..	..	..	5	..	1	37	43	Diarrhoea .....	1
..	..	..	..	..	..	..	..	..	..	..	..	3	3	Dysentery .....	..
..	1	1	..	..	†3	1	1	..	..	..	..	29	48	Continued Fever .....	1
..	..	1	..	..	..	..	..	..	1	..	..	4	12	Erysipelas .....	1
..	..	1	1	1	4	..	1	2	1	1	3	40	79	Rheumatism .....	..
..	..	1	..	..	1	..	..	..	..	..	..	7	20	Neuralgic Affections ..	..
1	..	..	..	..	..	..	..	1	..	..	1	16	37	Constitutional Syphilis	1
..	..	4	..	..	..	..	..	1	..	..	1	35	56	Phthisis .....	5
2	1	..	..	..	..	..	..	..	..	..	2	8	9	Insanity .....	1
2	3	5	4	2	6	4	5	12	3	3	6	118	220	Bronchitis, Influenza, and Catarrh.....	7
..	..	2	..	..	1	..	..	..	..	1	..	15	19	Pleurisy & Pneumonia.	..
..	..	8	..	..	2	..	1	3	2	1	19	61	54	Skin Disease.....	..
..	..	4	1	..	2	..	2	..	3	1	2	70	87	Dyspeptic .....	..
3	7	77	..	7	13	3	9	26	4	24	53	635	710	Accidents and diseases not classified.....	28
8	13	109	9	13	35	10	21	51	21	32	91	1119	1521	TOTAL.....	46

Debited for the annexed Returns.

(17) Dr. SAMUEL BOOTH,	(21) Mr. JOHN SMITH,	(25) Mr. JOHN RAYNER,
(18) Mr. M. O. LARMUTH,	(22) Dr. ALEX. WILSON,	(26) „ J. V. L. WESTMACOTT,
(19) „ J. O. BRADBURY,	(23) Mr. H. M. WILLIAMSON	(27) „ JOHN HOLDEN,
(20) „ W. B. STOTT,	(24) „ JOSEPH FOSTER,	(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Fowler.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL..	Corres- ponding week last year.
Small Pox .....	1	1	1	1	1	1	1	1	1	1	1	1	7
Measles .....	1	1	1	1	1	1	1	1	1	1	1	6	9
Whooping-cough.....	1	1	1	1	1	1	1	1	1	1	1	4	9
Scarlatina .....	3	3	1	1	4	8	1	2	1	2	1	25	14
Diarrhœa .....	1	1	1	1	1	1	1	1	1	1	1	4	4
Fever .....	1	2	1	1	1	1	1	1	1	1	1	10	4
Diseases of the Lungs ..	8	7	1	3	1	8	1	1	10	17	1	55	52
Other causes.....	13	12	23	5	9	17	15	7	15	16	5	127	133
<b>TOTAL NO. OF DEATHS.</b>	27	25	23	10	14	23	19	9	31	41	10	232	232
<b>TOTAL NO. OF BIRTHS.</b>	32	26	8	16	12	20	15	10	21	63	18	241	330

a 2 Inquests. b 1 Inquest. c 1 Gastric, aged 22 Months, & 1 Rheumatic, aged 24 years. d 1 Puerperal, & 2 Typhoid.  
e 1 Gastric, aged 33 Years, & 1 Typhus, aged 40 Years.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL.	DISEASE.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL
5	8	6	19	..... Small-pox.....	34	46	51	131
12	17	15	44	..... Chicken-pox .....	6	7	11	24
35	22	16	73	..... Measles .....	26	17	57	100
23	28	35	86	..... Scarlatina.....	133	103	108	344
7	6	3	16	..... Diphtheria.....	6	1	1	8
75	79	102	256	.... Whooping-cough ....	100	72	71	243
1	2	6	9	..... Croup.....	1	4	6	11
517	560	595	1672	..... Diarrhœa .....	207	166	150	523
..	7	4	11	..... Dysentery.....	20	15	15	50
..	1	..	1	..... Cholera .....	..	..	..	..
17	18	23	58	..... Erysipelas.....	57	37	23	117
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
15	26	27	68	..... Insanity .....	26	53	67	146
1062	995	1169	3226	. Bronchitis and Catarrh..	1390	1251	1109	3750
12	7	18	37	..... Pleurisy .....	70	73	84	227
26	32	39	97	..... Pneumonia .....	..	..	..	..
5	6	8	19	..... Carbuncle.....	..	..	..	..
3793	3365	4914	12072	{ Accidents, and all ether Diseases. }	4754	4593	5380	15227
5605	5179	6980	17764	..... TOTAL .....	6830	6438	7633	20901

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN APRIL :			Royal Infirmary, Dr. REED.		Old Trafford, G. V. VERNON, Esq.		Thelwall, J. ATKINSON, Esq.		Eccles, T. MACKERRETH Esq.		Royton, J. HEAP, Esq.		Bowdon, L. W. Reynolds Esq.		Castleton Moor, Rev. J. C. BATES.	
	Inches.	Wet Days.														
Eccles.....	1.722	12														
Bowdon .. ..	1.625	12														
Old Trafford..	1.602	9														
Castleton Moor	1.417	12														
Royton .....	1.260	10														
Height of barometer cistern above sea level	130 ft.				123 ft		96 ft.		127 ft.		522 ft.		221 ft.		475 ft.	
<b>Barometer.</b>	INS.				INS.				INS.		INS.		INS.		INS.	
Mean @ 32° F., and reduced to sea level	30.185				30.182				30.165		30.169		30.167		30.194	
Highest.....	30.224	Unreduced {			30.236				30.220		29.769		30.120		29.860	
Lowest .....	30.050				29.994				29.960		29.500		29.888		29.584	
Range .....	0.174				0.242				0.260		0.269		0.232		0.276	
<b>Temperature.</b>																
Adopted Mean .....	63.6				64.4				65.7		63.7		63.7		61.9	
Range for Week .....	29.7				37.1				34.8		34.9		31.2		31.4	
Daily Range .....	21.5				28.8				27.3		23.6		23.6		23.2	
Maximum in Shade .....	80.2				86.4				83.5		82.0		82.2		80.0	
Minimum in Shade .....	50.5				49.3				48.7		47.1		51.0		48.6	
Temperature of Dew Point .....	53.0				54.9				51.5		52.9		54.7		49.6	
<b>Hygrometrical condition of the Atmosphere.</b>																
Degree of Humidity (Saturation—1,000)	GRS. 0.673				GRS. 0.714				GRS. 0.578		GRS. 0.674		GRS. 0.716		GRS. 0.646	
Prevailing Winds .....					SE, SW				SE, SW		SE, SW		NW, SW		NW, SW	
Rain .....					0.520				0.506		0.625		1.005		0.000	

May 21, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, MAY 28, 1864. [No. 200.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending May 28th 1,400 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions. Considering that the present return refers to the week succeeding whit-week it may be looked upon as affording very satisfactory evidence respecting the state of the public health.

The most unfavourable feature among the zymotic returns is the occurrence of 6 cases of true Typhus Fever, out of 36 cases of Continued Fever. Three of these are recorded by Dr. Ledward as having occurred in the St. Michael's district. It has lately been authoritatively stated that Typhus has for some weeks proved very prevalent in Liverpool.

There were only 8 cases of Scarlet Fever; but, with the subsidence of this affection among the poor, Measles appears to be on the increase: there were 20 cases,—10 more than in our preceding return. Of this number 7 occurred in the poor law district of St. Philip's, Hulme, and 6 among the patients of the Chorlton Dispensary. Thus, at the present time, the disorder appears pretty well confined to certain localities. In the preceding week, out of 10 cases, 2 were met with in St. Philip's district, and 5 at the Chorlton Dispensary,—7 in all: this week we find 13 recorded in the two districts.

From the little attention devoted to isolation, in the case of the epidemic diseases, we may anticipate, it is to be feared, a fresh epidemic of Measles; at least it was in this manner that both Scarlet Fever and Small-pox spread over the town, commencing in certain districts in which it was suffered to rage unchecked.

There were 44 cases of Diarrhœa and Dysentery, 4 more than in the preceding week.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week only 181 deaths were registered in the eleven districts. In no preceding week since that terminating on the 1st of November, 1862, has so favourable a death-toll been recorded: in the two preceding weeks the numbers were respectively 215 and 232.

At the same time 402 births were registered, more than in any preceding week since that ending on the 21st of June, 1862. It must be borne in mind, however, that parents are allowed six weeks in which to register the births of their children, and that, as the preceding week was a holiday season, many persons would appear to have put off registering till the following week. On the whole, however, the present returns may be looked upon as unusually favourable.

The disorders so prevalent in winter have abated to their summer proportions, while those peculiar to summer have not yet set in. Further, no epidemic is at present sufficiently wide-spread to influence the return to any material extent.

In London, according to the last return of the Registrar General, the mortality was not above the average. Measles there was fatal in 79 cases.

At Greenwich the mean temperature of the air was 52°. At none of the stations from which our returns are supplied was the mean reading of the thermometer so high: at Old Trafford it was 51.3°, at Eccles and Bowdon 50.1°, and at the Royal Infirmary 49.2°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec

COMMITTEE ROOMS,

33 FALM MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
*New Cases of Disease coming under Treatment*

\* Typhus                  † 3 Typhus                  ‡ Typhoid.

(13) Mr. H. RUNCORN  
(14) Dr. WHITEHEAD  
(15) Mr. W. GOLLAND  
(16) „ J. TEALE,



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 28th day of May, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477. ....			646. ...		508.	2650. ....			Area in Statute Acres.		
70,967. ....				68,209. ...			44,850. ...		21739	24,448 .....			Population in 1861.		
W CT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS										DISEASES.	
	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.		
7	18	19	20	21	22	23	24	25	26	27	28				
1	2	3	..	2	..	..	..	..	..	1	..	13	31	Small-pox .....	..
..	..	..	..	..	1	..	..	..	1	..	..	3	1	Chicken-pox .....	..
..	..	..	..	..	1	7	..	6	3	..	..	20	27	Measles .....	1
..	..	..	..	..	..	..	..	..	2	..	..	8	14	Scarlatina .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	1	..	..	1	1	..	..	1	..	1	10	17	Whooping-cough ....	1
..	..	..	..	..	..	..	..	1	..	..	..	1	2	Croup .....	1
..	1	2	4	1	..	1	..	3	..	3	..	37	30	Diarrhoea .....	..
..	..	1	..	..	..	..	..	..	..	..	..	7	..	Dysentery .....	..
..	1	2	..	..	1	2	..	..	5	*1	..	36	33	Continued Fever ....	..
..	..	2	..	..	..	..	..	1	..	..	..	9	9	Erysipelas .....	1
1	..	4	1	2	..	2	2	3	4	..	..	62	66	Rheumatism .....	..
..	1	4	..	..	..	..	..	1	1	..	..	15	10	Neuralgic Affections ..	..
1	1	2	..	..	..	..	..	1	..	..	7	35	25	Constitutional Syphilis	..
..	..	5	..	..	2	..	..	..	3	2	1	76	47	Phthisis .....	7
..	3	..	..	..	..	..	..	..	..	..	1	16	5	Insanity .....	..
3	3	11	3	..	3	9	3	10	2	5	2	129	147	Bronchitis, Influenza, and Catarrh .....	3
..	..	1	..	..	1	..	..	1	..	1	..	14	21	Pleurisy & Pneumonia.	1
..	6	2	1	..	..	1	3	2	1	..	12	92	41	Skin Disease.....	..
..	..	10	2	..	5	..	2	..	..	3	6	91	44	Dyspepsia .....	..
..	9	14	..	4	3	3	8	22	..	31	28	726	622	Accidents and diseases not classified.....	21
..	27	164	11	9	18	26	18	51	23	47	58	1400	1192	TOTAL.....	39

ged 15 years not vaccinated, and 1 vaccinated. || Febricula.

ted for the annexed Returns.

7) Dr. SAMUEL BOOTH,  
8) Mr. M. O. LARMUTH,  
9) „ J. O. BRADBURY,  
10) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tipton.	Pendleton Dis., Mr. Bowler.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	1	..	..	..	..	1	..	2	1	..	1	4
Measles .....	..	1	..	..	..	..	1	..	2	4	..	5	5
Whooping-cough.....	..	3	1	1	..	4	..	..	1	2	4	18	10
Scarlatina.....	2	..	..	..	..	1	..	..	..	..	..	2	22
Diarrhoea .....	..	..	..	..	..	1	1	..	..	..	..	2	2
Fever .....	2	1	..	..	..	..	..	1	1	1	3	9	9
Diseases of the Lungs ..	6	6	..	5	..	5	2	..	9	10	3	46	50
Other causes.....	10	7	16	4	11	5	13	5	11	11	2	95	110
<b>TOTAL NO. OF DEATHS.</b>	<b>20</b>	<b>18</b>	<b>17</b>	<b>10</b>	<b>11</b>	<b>15</b>	<b>18</b>	<b>7</b>	<b>24</b>	<b>29</b>	<b>12</b>	<b>181</b>	<b>212</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>41</b>	<b>42</b>	<b>33</b>	<b>23</b>	<b>19</b>	<b>44</b>	<b>40</b>	<b>34</b>	<b>35</b>	<b>63</b>	<b>28</b>	<b>402</b>	<b>258</b>

a Typhus, both in the same house.      b 3 Inquests.      c Rheumatic, aged 21 years.      d Typhus.  
e 1 Gastric, aged 2 Years, & 1 Typhus, aged 70 Years.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

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Institutions in MANCHESTER  
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Population in 1861, 390,815.

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35	22	16	73	..... Measles .....	26	17	57	100
23	28	35	86	..... Scarlatina.....	133	103	103	344
7	6	3	16	..... Diphtheria.....	6	1	1	3
75	79	102	256	.... Whooping-cough ....	100	72	71	243
1	2	6	9	..... Croup.....	1	4	6	11
517	560	595	1672	..... Diarrhoea .....	207	166	150	523
..	7	4	11	..... Dysentery.....	20	15	15	50
..	1	..	1	..... Cholera .....	..	..	..	..
17	18	23	58	..... Erysipelas.....	57	37	23	117
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
15	26	27	68	..... Insanity .....	26	53	67	146
1062	995	1169	3226	.Bronchitis and Catarrh..	1390	1251	1109	3750
12	7	18	37	..... Pleurisy .....	70	73	84	227
26	32	39	97	..... Pneumonia .....	..	..	..	..
5	6	8	19	..... Carbuncle.....	..	..	..	..
3793	3365	4914	12072	{ Accidents, and all other Diseases. }	4754	4593	5880	15227
5605	5179	6980	17764	..... TOTAL .....	6830	6438	7633	20901

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN APRIL :			Royal Infirmary, Dr. REED.		Old Trafford, G. V. VERNON, Esq.		Eccles, T. MACKERETH Esq.		Royton, J. HEAP, Esq.		Bowdon, L. W. REYNOLDS Esq.		Castleton Moor, Rev. J. C. BATES.	
Inches.	Wet Days.													
Eccles.....	1.722	..... 12												
Bowdon ..	1.625	..... 12												
Old Trafford..	1.602	..... 9												
Castleton Moor	1.417	..... 12												
Royton .....	1.260	..... 10												
Height of barometer cistern above sea level.....			130 ft.	123 ft.	127 ft.	522 ft.	221 ft.	475 ft.						
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.						
Mean @ 32° F., and reduced to sea level.....			30.090	30.084	30.084	30.064	30.081	30.061						
Highest.....			30.230	30.219	30.184	29.719	30.100	29.844						
Lowest.....			29.970	29.350	29.874	29.410	29.793	29.466						
Range .....			0.260	0.369	0.310	0.309	0.307	0.378						
<b>Temperature.</b>														
Adopted Mean .....			49.2	51.3	50.1	48.9	50.1	48.6						
Range for Week .....			23.3	32.6	33.1	32.0	27.9	31.6						
Daily Range.....			15.1	19.0	18.2	20.5	16.3	16.8						
Maximum in Shade .....			61.2	66.6	65.6	63.8	64.0	63.7						
Minimum in Shade .....			37.9	34.0	32.5	31.8	36.1	32.1						
Temperature of Dew Point .....			38.8	39.9	38.6	39.5	40.2	38.9						
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.						
Degree of Humidity (Saturation—1,000).....			0.670	0.653	0.650	0.705	0.690	0.695						
Prevailing Winds .....				NW,	NW,NE	NW,NE	NW,NE	NW,NE						
Rain .....				0.169	0.186	0.145	0.073	0.188						

May 28, 1864.

JOHN HEAP, Royton; Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.]

WEEK ENDING SATURDAY, JUNE 4, 1864.

[No. 201.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The satisfactory state of the public health which was shown to prevail in our last report still continues. The number of new cases of disease in the week terminating June 4th amounted to 1,381, or 19 less than in the preceding week, and 364 less than in the corresponding week of last year. At that time all the more formidable examples of zymotic disease prevailed to a very much greater extent than they do at the present time; in that week 64 cases of Small-pox were recorded,—last week only 6. Then 29 seizures from Measles, and 27 from Scarlet Fever,—in the present return the respective numbers are 11 and 22. In like manner, Diarrhoea, Whooping Cough, and Continued Fever were all very much more generally diffused in the town than they are at present.

In our last return we referred to the prevalence of Measles among the patients of the Chorlton Dispensary, and in the parish of St. Philip's. The disease appears still almost completely confined to these districts; thus, out of the 11 recorded cases, 10 occurred in Chorlton and St. Philip's.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The favourable returns obtained from the medical officers respecting the amount of disease which has lately come under their observation is fully confirmed by the Public Registrars of deaths. Last week the number did not exceed 194, whereas in the corresponding week of last year it reached 250.

It is satisfactory to observe that the deaths from Scarlet Fever, during the last fortnight, have steadily decreased; thus, in the week ending May 21st, there were 25, in the following return 18, and in last only 12.

The deaths from Fever are also becoming less numerous, the respective numbers for the three weeks being 10, 9, and 4.

Diarrhoea has evidently not yet set in to that extent which it usually attains on the advance of summer, only 4 deaths being registered in the week.

According to the last return of the Registrar General, the deaths in the metropolis, in the week, exceeded the estimated number by 44. The only zymotic diseases which appears to prevail there to any unusual extent is Measles; it carried off 86 persons.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 50·4°. At none of the Manchester stations was the mean reading of the thermometer so high: at Old Trafford it was 49·8°, at Eccles 48·3°, at Bowdon 48·2°, and at the Royal Infirmary 47°.

The prevailing winds were from the North-East and West.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN	
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	1	..	..	1	1	..	..	..	..	2	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	2	2	..	1	1	6	..	..	..	..	4	1	3	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	2	..	2	2	6	..	..	..	..	..	..	5	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Continued Fever.....	..	*3	2	*1	..	*2	8	5	†1	..	..	..	1	4	..
Erysipelas .....	1	..	..	1	..	..	2	..	..	3	..	..	2	..	..
Rheumatism .....	2	1	4	..	1	1	9	9	1	15	1	4	3	1	3
Neuralgic Affections .....	..	..	..	..	..	1	1	1	2	3	1	..	2	..	2
Constitutional Syphilis .....	..	..	..	..	..	..	..	7	..	17	..	..	..	..	..
Phthisis .....	..	1	..	..	2	2	5	1	1	33	1	1	5	2	3
Insanity .....	..	..	1	..	..	..	1	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	3	5	4	1	5	4	22	5	1	17	2	3	3	4	7
Pleurisy and Pneumonia.....	..	..	..	..	2	..	2	1	1	3	..	..	..	..	1
Skin Diseases.....	..	..	1	1	..	..	2	14	..	34	1	..	..	7	5
Dyspepsia .....	..	2	1	..	1	1	5	3	..	35	1	..	..	7	11
Accidents and diseases not classified.....	23	8	10	6	3	17	69	64	47	213	2	5	17	49	18
TOTAL .....	29	22	27	13	17	31	139	115	54	373	9	17	36	87	52

\* Febricula. † Typhoid.

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

Medical Officers to whom the Association  
(9) }  
(10) } Mr. G. E. WALKER,  
(11) } „ ALFRED GODSON,  
(12) }  
(13) Mr. H. RUNCOR  
(14) Dr. WHITEHEAD  
(15) Mr. W. GOLLAN  
(16) „ J. TEALE,



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 4th day of June, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
1,329 .....				477. ....			646. ...		508.	2650.....						
70,967. ....				68,209. ...			44,850 ..		21739	24,448 .....						
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District. Dispensary.		Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Work- house.	Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
17	18	19	20	21	22	23	24	25	26	27	28					
..	1	..	..	..	..	..	1	..	..	..	..	6	64	Small-pox .....	..	
..	..	2	..	..	..	..	..	..	1	..	3	6	5	Chicken-pox .....	..	
..	..	..	..	..	..	2	2	6	1	..	..	11	29	Measles .....	1	
..	..	..	..	..	3	..	..	..	1	..	..	22	27	Scarlatina .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	..	..	..	..	1	..	..	1	7	17	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	1	3	3	..	2	1	..	2	3	1	..	27	40	Diarrhoea .....	1	
..	..	1	..	..	..	..	..	..	..	..	..	2	2	Dysentery .....	..	
..	3	1	..	..	..	1	..	..	1	..	2	27	37	Continued Fever ....	..	
..	..	1	..	..	..	..	..	..	..	1	..	9	8	Erysipelas .....	..	
..	..	3	1	3	..	1	1	2	2	3	7	71	91	Rheumatism .....	..	
..	..	1	..	..	..	..	..	..	..	..	..	14	18	Neuralgic Affections ..	..	
..	1	2	2	..	..	..	..	..	..	2	6	39	33	Constitutional Syphilis	..	
..	1	5	..	..	1	..	1	1	..	2	..	64	85	Phthisis .....	5	
..	3	..	..	1	1	..	..	..	..	..	2	13	16	Insanity .....	1	
1	..	9	5	4	5	3	5	10	2	5	2	115	228	Bronchitis, Influenza, and Catarrh .....	4	
1	..	..	..	..	1	..	..	..	..	..	1	11	14	Pleurisy & Pneumonia.	1	
..	1	10	..	1	1	..	1	1	1	1	5	85	88	Skin Disease.....	..	
..	..	9	1	..	1	1	2	..	3	2	2	86	112	Dyspepsia .....	..	
4	6	125	..	6	5	4	6	46	..	34	37	766	830	Accidents and diseases not classified.....	40	
6	17	172	12	15	20	13	19	69	15	51	68	1381	1745	TOTAL.....	54	

ebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L.WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	1	..	..	e1	..	2	..
Measles .....	..	..	..	..	..	..	..	..	..	4	..	4	15
Whooping-cough.....	..	..	..	..	..	1	2	..	1	2	..	6	6
Scarlatina .....	2	..	..	..	1	2	..	..	2	3	2	12	22
Diarrhoea .....	..	3	..	..	..	..	..	..	1	..	..	4	7
Fever .....	..	2	..	..	..	..	..	1	e1	..	..	4	7
Diseases of the Lungs ..	9	4	2	2	..	6	..	..	10	9	3	45	56
Other causes.....	9	14	19	6	10	5	a7	b11	d14	17	5	117	137
TOTAL NO. OF DEATHS.	20	23	21	8	11	14	10	12	29	36	10	194	250
TOTAL NO. OF BIRTHS.	31	46	20	20	14	41	37	16	29	59	15	328	389

a 1 Inquest.      b 2 Inquests.      c Typhoid, aged 3 years.      d 3 Apoplexy.      e Female, aged 3 Weeks.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL.	DISEASE.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL
5	8	6	19	.....Small-pox.....	34	46	51	131
12	17	15	44	..... Chicken-pox .....	6	7	11	24
35	22	16	73	..... Measles .....	26	17	57	100
23	28	35	86	.....Scarlatina.....	133	103	108	344
7	6	3	16	..... Diphtheria.....	6	1	1	8
75	79	102	256	.... Whooping-cough ....	100	72	71	243
1	2	6	9	.....Croup.....	1	4	6	11
517	560	595	1672	.....Diarrhoea.....	207	166	150	523
..	7	4	11	.....Dysentery.....	20	15	15	50
..	1	..	1	..... Cholera .....	..	..	..	..
17	18	23	58	.....Erysipelas.....	57	37	23	117
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
15	26	27	68	..... Insanity .....	26	53	67	146
1062	995	1169	3226	..Bronchitis and Catarrh..	1390	1251	1109	3750
12	7	18	37	..... Pleurisy .....	70	73	84	227
26	32	39	97	..... Pneumonia .....	..	..	..	..
5	6	8	19	.....Carbuncle.....	..	..	..	..
3793	3365	4914	12072	{ Accidents, and all other Diseases. }	4754	4593	5380	15227
5605	5179	6980	17764	..... TOTAL .....	6830	6438	7633	20901

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MAY : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Old Trafford..	3.175	.....	10						
Royton .....	2.895	.....	11						
Bowdon .....	2.893	.....	11						
Eccles.....	2.982	.....	11						
Castleton Moor	3.348	.....	12						
Height of barometer cistern above sea level.....				130 ft.	123 ft	127 ft.	522 ft.	221 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.866	29.871	29.873	29.859	29.861	29.856
Highest.....				29.880	29.963	29.944	29.509	29.844	29.558
Lowest .....				29.738	29.644	29.638	29.200	29.564	29.262
Range .....				0.142	0.319	0.306	0.309	0.280	0.296
Temperature.									
Adopted Mean .....				47.0	49.8	48.5	47.1	48.2	46.0
Range for Week .....				22.6	34.0	33.6	34.9	30.2	29.9
Daily Range.....				16.0	23.1	22.1	21.9	20.5	19.2
Maximum in Shade .....				60.2	66.0	64.1	64.0	65.0	61.3
Minimum in Shade .....				37.6	32.0	30.5	29.1	34.8	31.4
Temperature of Dew Point .....				36.6	40.3	37.0	40.5	38.7	36.5
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.680	0.702	0.645	0.784	0.695	0.700
Prevailing Winds .....					NW,	NE,NW	NE,NW	NE,NW	NE,W
Rain .....					0.016	0.016	0.145	0.083	0.000

June 4, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, JUNE 11, 1864.

[No. 202.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

Last week the number of new cases of disease amounted to 1,370, 11 fewer than in the preceding week, and 365 fewer than in the corresponding week of last year. This return may be considered decidedly favourable.

There were 24 seizures from Scarlet Fever, or 2 more than in the week ending June 4th; 6 of these occurred among the patients of the Salford Dispensary.

Of 10 cases of Measles 7 were again met with in Chorlton.

Small-pox proved considerably less prevalent than it was a fortnight ago; at that time 13 cases were recorded, last week only 2. In the corresponding week of last year it was raging with all the severity of an epidemic, no fewer than 54 cases being returned.

In the week ending May 28th there were 44 cases of Diarrhœa and Dysentery, last week only 32.

Continued Fever has been steadily declining, the respective numbers, during the last three weeks being 36, 27, and 21. The proportion of cases, however, which proved examples of Typhus was very much larger than it is at present.

The only disorders which, somewhat unaccountably, appear to have become more general are those connected with the respiratory organs,—they rose last week from 126 to 174; at the same time they reached the still higher total of 263 in the corresponding week of last year.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

In the week terminating June 11th 201 deaths were registered in the eleven districts, seven more than in the previous week, but 16 fewer than in the corresponding week of last year. None of them are attributed to Small-pox.

Scarlet Fever carried off 13 persons, and Diarrhœa six.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 130. Thus the state of the public health in London is evidently less satisfactory than in Manchester. Measles there proved fatal in 82 cases. Nearly half the deaths occurred in children between the ages of one and two; thus it would appear that at this age the disorder is peculiarly apt to terminate fatally.

The return of the Registrar contains an analysis of the water supplied by some of the metropolitan companies and that of the Manchester water supply; as usual the latter contains a very much smaller proportion of impurities. Thus the purest of the London waters contained 16·24 grains of foreign matter in solution in every gallon, the Manchester water contained only 3·33 grains.

The weather at Greenwich was warmer than at any of these stations, the mean temperature amounting to 59·6°; at Old Trafford it was 57·9°, at Eccles 56·6°, and at Bowdon 55·8°. South-westerly winds very generally prevailed.

In this neighbourhood about half an inch of rain was measured, in London none.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN		
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	1	..	..	..	1	2	..	..	..	..	2	1	3	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	2	..	..	..	1	..	3	..	..	..	..	..	..	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	..	..	1	2	1	5	..	..	1	..	1	1	5	1
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Continued Fever.....	..	..	1	1	..	1	3	3	..	..	2	..	..	3	..
Erysipelas .....	..	..	..	1	..	..	1	..	..	2	..	..	..	..	..
Rheumatism .....	1	2	3	..	3	1	10	2	2	23	..	3	3	..	3
Neuralgic Affections.....	..	..	..	..	..	..	..	..	2	2	..	2	3	..	3
Constitutional Syphilis .....	..	..	..	..	2	..	2	4	..	12	..	..	..	1	1
Phthisis .....	..	1	..	..	3	1	5	2	..	31	4	3	2	1	3
Insanity .....	1	..	..	..	..	..	1	5	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	6	3	1	6	7	24	6	..	43	..	3	3	8	4
Pleurisy and Pneumonia.....	..	..	2	..	..	..	2	2	1	..	..	1	..	..	..
Skin Diseases.....	..	..	3	..	..	1	4	11	..	25	..	..	..	4	6
Dyspepsia .....	..	..	1	1	3	..	5	6	..	15	..	..	..	2	3
Accidents and diseases not classified.....	26	9	9	7	5	16	72	50	27	228	5	4	7	47	15
TOTAL .....	32	19	22	12	25	29	139	91	32	382	11	20	20	77	40

\* Typhoid.

† Vaccinated.

‡ Typhus.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.  
2) „ J. BROADBENT,  
3) „ JOHN ARMSTRONG,  
4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
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(12) }

- (13) Mr. H. RUNCO  
(14) Dr. WHITEHEAD  
(15) Mr. W. GOLLA  
(16) „ J. TEALE,



# NITARY ASSOCIATION.

S OF MANCHESTER AND ADJOINING DISTRICTS.

ek ending the 11th day of June, 1864

ALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.					
1,329 .....				..... 477. ....			... 646. ...		508.	..... 2650.....			Area in Statute Acres.		
70,967. ....				... 68,209. ...			... 44,850. ...		21739	..... 24,448 .....			Population in 1861.		
W CT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's									
7	18	19	20	21	22	23	24	25	26	27	28				
	..	..	..	†1	..	..	..	..	..	..	..	2	54	Small-pox .....	..
	..	..	..	..	..	..	..	..	..	..	..	..	9	Chicken-pox .....	..
1	..	1	..	..	..	..	3	4	1	..	..	10	39	Measles .....	..
	..	6	..	3	..	1	..	2	1	..	..	24	17	Scarlatina .....	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
	..	1	..	..	..	..	..	..	..	..	..	6	17	Whooping-cough ....	1
	..	..	..	..	..	..	..	..	1	..	..	1	2	Croup .....	..
	..	3	3	1	..	3	..	2	2	2	..	30	40	Diarrhoea .....	..
	..	..	..	..	..	..	..	..	..	..	..	2	1	Dysentery .....	..
	..	*2	1	1	1	..	2	..	..	†1	..	21	39	Continued Fever ....	2
	..	1	..	1	..	..	1	1	..	..	..	7	4	Erysipelas .....	..
2	..	7	..	..	1	..	2	3	1	2	2	67	73	Rheumatism .....	..
	..	4	..	..	..	..	..	..	1	..	..	17	16	Neuralgic Affections ..	1
1	1	3	..	..	..	..	..	..	2	..	4	34	45	Constitutional Syphilis	..
2	1	4	..	..	1	1	2	1	..	2	3	68	76	Phthisis .....	4
1	1	..	..	..	1	..	1	..	..	..	1	11	11	Insanity .....	..
10	..	17	3	3	4	5	5	9	2	6	6	164	263	Bronchitis, Influenza, and Catarrh .....	6
	..	1	..	..	..	..	..	1	..	..	2	10	25	Pleurisy & Pneumonia.	..
	2	6	..	..	..	..	..	2	1	..	11	72	68	Skin Disease.....	..
2	1	9	2	..	5	1	8	..	3	2	..	66	72	Dyspepsia .....	1
7	3	131	..	6	2	4	11	43	2	33	51	758	864	Accidents and diseases not classified.....	26
26	9	196	9	16	15	15	35	68	17	48	80	1370	1735	TOTAL.....	41

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	..	..	..	2	1	..	3	8
Measles.....	..	..	..	..	..	..	..	..	..	..	..	..	11
Whooping-cough.....	..	..	..	..	..	..	1	1	..	2	1	5	5
Scarlatina.....	2	2	..	..	1	3	..	..	1	4	..	13	27
Diarrhoea.....	1	..	..	..	..	1	3	..	..	..	..	6	5
Fever.....	2	1	1	..	..	1	..	..	..	1	..	6	6
Diseases of the Lungs ..	10	5	3	7	..	5	3	..	7	10	..	50	47
Other causes.....	13	8	29	6	13	9	14	5	6	9	6	118	108
TOTAL NO. OF DEATHS.	28	16	33	13	14	19	21	6	16	27	8	201	217
TOTAL NO. OF BIRTHS.	45	31	12	27	20	30	26	17	24	46	26	304	357

a 2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL.	DISEASE.	4 Weeks ending 27th Feb.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	TOTAL
5	8	6	19	..... Small-pox.....	34	46	51	131
12	17	15	44	..... Chicken-pox.....	6	7	11	24
35	22	16	73	..... Measles.....	26	17	57	100
23	28	35	86	..... Scarlatina.....	133	103	108	344
7	6	3	16	..... Diphtheria.....	6	1	1	8
75	79	102	256	.... Whooping-cough ....	100	72	71	243
1	2	6	9	..... Croup.....	1	4	6	11
517	560	595	1672	..... Diarrhoea.....	207	166	150	523
..	7	4	11	..... Dysentery.....	20	15	15	50
..	1	..	1	..... Cholera.....	..	..	..	..
17	18	23	58	..... Erysipelas.....	57	37	23	117
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
15	26	27	68	..... Insanity.....	26	53	67	146
1062	995	1169	3226	.. Bronchitis and Catarrh..	1390	1251	1109	3750
12	7	18	37	..... Pleurisy.....	70	73	84	227
26	32	39	97	..... Pneumonia.....	..	..	..	..
5	6	8	19	..... Carbuncle.....	..	..	..	..
3793	3365	4914	12072	{ Accidents, and all other Diseases. }	4754	4593	5880	15227
5605	5179	6980	17764	..... TOTAL.....	6830	6438	7633	20901

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MAY : Inches. Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq	Royton, J. HEAP, Esq.	Bowdon, L. W. REYNOLDS Esq	Castleton Moor, Rev. J. C. BATES.
Old Trafford..	3.175	.....	10						
Royton .....	2.895	.....	11						
Bowdon .....	2.893	.....	11						
Eccles.....	2.982	.....	11						
Castleton Moor	3.348	.....	12						
Height of barometer cistern above sea level.....				130 ft.	123 ft	127 ft.	522 ft.	221 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.863	29.857	29.852	29.846	29.844	29.838
Highest.....				29.884	29.926	29.942	29.498	29.794	29.560
Lowest.....				29.710	29.640	29.608	29.173	29.526	29.268
Range .....				0.174	0.286	0.334	0.325	0.268	0.292
Temperature.									
Adopted Mean .....				54.2	57.9	56.8	54.6	55.8	53.5
Range for Week .....				23.2	35.2	36.5	32.5	28.9	30.1
Daily Range.....				13.5	19.0	19.9	18.5	15.9	16.1
Maximum in Shade .....				67.8	76.5	76.7	70.5	71.8	69.0
Minimum in Shade .....				44.6	41.3	40.2	38.0	42.9	38.9
Temperature of Dew Point .....				50.0	49.0	47.0	48.5	48.0	47.4
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.854	0.777	0.695	0.794	0.750	0.794
Prevailing Winds .....					SW,W	SW,NW	SW,NW	SW,NW	SW.SSW
Rain .....					0.585	0.564	0.495	0.543	0.591

June 11, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

[VOL. IV.]

WEEK ENDING SATURDAY, JUNE 18, 1864.

[No. 203.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The number of new cases of disease that occurred last week in connection with the public Charitable Institutions amounted to 1,424 : in the preceding week there were 1,370, and in the corresponding one of last year 1,447.

Among the zymotic diseases Measles is evidently gaining ground. For several weeks it appeared chiefly confined to the parish of St. Philip's, Hulme, and to Chorlton; in the present returns, however, out of 17 cases, only 6 occurred in Chorlton, the remaining seizures being distributed in Manchester and Salford.

Small-pox attacked 13 persons, 11 more than in the previous week.

Of 27 cases of Continued Fever only 1 is referred to as an example of Typhoid.

Bronchitis and kindred affections of the chest were considerably less prevalent than in the corresponding week of last year, the respective numbers being 156 and 201.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 189 deaths were registered in the eleven districts, or 21 fewer than in the preceding week; of this number only 7 are attributed to Scarlet Fever. In the two previous weeks the respective numbers were 12 and 13.

There were 13 fatal cases of Diarrhœa. Thus it would appear that this disorder is, as the season advances, acquiring increased intensity, for, though the recorded cases are not unusually numerous, still the proportion of them that ended in death is considerable.

In London, according to the last return of the Registrar General, the deaths exceeded the estimated number by 123; thus the state of the public health there is evidently less favourable than in Manchester. Of two deaths specially referred to in the London report one occurred in a boy, from inflammation of the brain, caused by a pea lodging in the ear; and another was that of a commercial traveller, who died from drinking a bottle of French brandy at a draught.

The mean temperature of the air at Greenwich Observatory was  $57.8^{\circ}$ . This reading exactly corresponds with that observed at Old Trafford, which has for some weeks proved the warmest of the stations in this neighbourhood. At Eccles it was  $57.1^{\circ}$ , at Bowdon  $56.6$ , and at the Royal Infirmary  $55.1^{\circ}$ .

In London only about a quarter of an inch of rain was measured; in this neighbourhood upwards of an inch.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC.  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	1	..	..	..	..	2	..	..
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	..	1	1
Measles .....	2	..	..	1	..	..	3	..	..	..	..	..	1	..	..
Scarlatina .....	..	1	..	..	..	1	2	..	..	..	..	1	..	1	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	1	..	1	..	..	..	..	..	..	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	2	1	2	1	7	..	..	6	..	..	2	6	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Continued Fever.....	*1	..	1	..	..	2	4	7	..	..	..	..	..	7	..
Erysipelas .....	1	..	..	..	..	..	1	..	1	3	..	..	..	..	..
Rheumatism .....	..	4	3	1	1	1	10	2	3	29	1	2	2	..	5
Neuralgic Affections .....	..	..	1	..	..	..	1	..	..	4	1	..	1	..	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	4	..	25	..	..	..	..	1
Phthisis .....	..	2	1	..	3	..	6	..	..	25	3	3	3	..	..
Insanity .....	..	..	..	..	..	..	..	5	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	5	6	1	6	7	26	3	..	39	2	1	4	5	7
Pleurisy and Pneumonia....	..	..	..	..	1	..	1	2	..	3	..	2	1	..	3
Skin Diseases.....	1	..	1	..	..	..	2	7	..	40	..	..	..	3	13
Dyspepsia .....	..	..	1	..	2	..	3	4	..	27	2	2	..	5	8
Accidents and diseases not classified.....	18	11	10	6	5	12	62	75	30	245	3	10	3	51	8
TOTAL .....	24	24	26	10	22	24	130	110	34	446	12	21	19	81	52

\* Typhoid. †Febricula.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ JOHN ARMSTRONG,

(4) Dr. BRADDON,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. A. PHILIPPS,

(8) Dr. GEORGE REED,
- (9)

(10) } Mr. G. E. WALKER,

(11) } „ ALFRED GODSON,

(12)
- (13) Mr. H. RUNO

(14) Dr. WHITEH

(15) Mr. W. GOLL

(16) „ J. TEALE



ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 18th day of June, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477 .....			646 .....		508.	2650 .....			Area in Statute Acres.		
70,967. ....				68,209. ....			44,850. ....		21739	24,448 .....			Population in 1861.		
LAW TRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	2	..	..	..	2	..	..	2	1	2	13	30	Small-pox .....	..
..	..	..	..	..	..	..	..	..	1	..	..	4	5	Chicken-pox .....	..
..	..	3	..	..	1	..	2	4	1	..	2	17	24	Measles .....	1
..	..	3	..	2	3	..	..	3	..	..	..	16	21	Scarlatina .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..
..	..	2	..	..	..	..	..	2	..	..	..	7	22	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
..	..	2	3	..	..	1	..	..	..	1	..	31	51	Diarrhoea .....	..
..	..	1	..	..	..	..	..	..	..	..	..	2	2	Dysentery .....	..
1	1	1	..	†2	..	1	..	..	1	..	1	27	39	Continued Fever ....	..
..	1	1	..	1	..	..	..	1	..	..	..	9	6	Erysipelas .....	..
1	1	5	2	1	..	1	1	2	..	2	4	75	73	Rheumatism .....	..
..	..	3	..	1	1	..	..	..	..	..	..	13	11	Neuralgic Affections ..	..
..	1	1	..	..	..	..	1	..	1	..	2	37	38	Constitutional Syphilis	2
1	..	6	..	..	..	..	1	1	1	1	1	53	70	Phthisis .....	7
..	2	..	..	..	..	..	1	..	..	..	3	12	10	Insanity .....	..
2	1	18	3	1	5	6	7	5	3	7	4	156	201	Bronchitis, Influenza, and Catarrh .....	6
2	..	1	..	..	..	..	..	2	..	..	..	17	21	Pleurisy & Pneumonia.	..
..	3	4	1	..	..	..	1	1	2	1	10	89	46	Skin Disease.....	..
..	..	7	2	..	6	1	7	..	4	3	2	84	79	Dyspepsia .....	..
2	5	107	1	4	3	4	7	50	4	35	42	762	697	Accidents and diseases not classified.....	32
9	16	167	12	12	19	16	28	71	20	51	73	1424	1447	TOTAL.....	51

debted for the annexed Returns.

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(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
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(26) „ J.V.L.WESTMACOTT,  
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(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	1	..	..	3
Measles .....	..	..	..	..	..	..	..	..	..	..	..	1	15
Whooping-cough.....	..	1	..	..	..	1	..	..	..	..	..	2	8
Scarlatina .....	2	1	..	..	..	1	..	..	..	3	..	7	18
Diarrhoea .....	..	..	..	1	..	2	3	..	c3	4	..	13	7
Fever .....	a1	..	..	1	..	..	..	..	d1	e1	1	5	9
Diseases of the Lungs ..	8	7	4	3	..	6	3	..	5	11	..	47	49
Other causes.....	9	10	31	6	8	8	b10	7	4	10	11	114	126
TOTAL NO. OF DEATHS.	20	19	35	11	8	18	16	7	13	30	12	189	235
TOTAL NO. OF BIRTHS.	34	38	13	26	16	16	27	15	47	54	29	315	310

a Typhus.      b 2 Inquests.      c All Infantile.      d Aged 8 years.      e Typhoid.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL.	DISEASE.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL
8	6	4	18	..... Small-pox.....	46	51	42	139
17	15	26	58	..... Chicken-pox .....	7	11	9	27
22	16	12	50	..... Measles .....	17	57	54	128
28	35	35	98	..... Scarlatina.....	103	108	53	264
6	3	6	15	..... Diphtheria.....	1	1	..	2
79	102	74	255	.... Whooping-cough ....	72	71	29	172
2	6	5	13	..... Croup.....	4	6	3	13
560	595	543	1698	..... Diarrhoea .....	166	150	121	437
7	4	1	12	..... Dysentery.....	15	15	15	45
1	..	..	1	..... Cholera .....	..	..	..	..
18	23	9	50	..... Erysipelas.....	37	23	22	82
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
26	27	25	78	..... Insanity .....	53	67	41	161
995	1169	724	2888	. Bronchitis and Catarrh..	1251	1109	525	2885
7	18	8	33	..... Pleurisy .....	73	84	54	211
32	39	31	102	..... Pneumonia .....	..	..	..	..
6	8	7	21	..... Carbuncle.....	..	..	..	..
3365	4914	3496	11775	{ Accidents, and all other Diseases. }	4593	5380	4099	14572
5179	6980	5006	17165	..... TOTAL .....	6438	7633	5067	19138

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN MAY : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
Old Trafford..	3.175	.....	10						
Royton .....	2.895	.....	11						
Bowdon .. ...	2.893	.....	11						
Eccles.....	2.982	.....	11						
Castleton Moor	3.348	.....	12						
Height of barometer eistern above sea level.....				130 ft.	123 ft	127 ft.	522 ft.	221 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.779	29.766	29.768	29.748	29.754	29.738
Highest.....				30.140	30.056	30.024	29.570	29.924	29.628
Lowest .....				29.462	29.362	29.376	28.935	29.281	29.000
Range .....				0.678	0.694	0.648	0.635	0.643	0.628
Temperature.									
Adopted Mean .....				55.1	57.8	57.1	55.4	56.6	54.8
Range for Week .....				17.3	22.8	24.3	22.0	18.2	19.1
Daily Range.....				12.1	17.1	16.8	16.3	14.3	13.6
Maximum in Shade .....				66.1	71.6	72.4	68.3	68.0	65.4
Minimum in Shade .....				48.8	48.8	48.1	46.3	49.8	46.3
Temperature of Dew Point .....				47.3	47.3	48.3	49.3	49.1	47.8
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.750	0.752	0.721	0.804	0.755	0.764
Prevailing Winds .....					S,SW	S,W	S,SW	S,W	S,W
Rain .....					1.157	1.256	1.672	0.831	1.599

June 18, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

[VOL. IV.]

WEEK ENDING SATURDAY, JUNE 25, 1864.

[No. 204.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The number of new cases of disease that occurred during the week ending June 25th, in connection with Public Charitable Institutions was 1,216, 126 of whom were under the care of the parish medical officers: in the preceding week the total number of cases was 1,424; and, in the corresponding week last year there were 1,540 cases, 230 of whom were receiving parish relief.

In this week there were 12 fresh cases of Measles, 17 of Scarlatina, 9 of Small-pox: in the preceding week the numbers were 17 cases of Measles, 16 of Scarlatina, and 13 of Small-pox.

Continued Fever, of which disease there 27 cases in the preceding week, attacked 24 persons,—3 of these are noted as cases of Typhus and 1 of Typhoid Fever; the latter and two of the former cases were in the Infirmary, and the 3rd case of Typhus occurred in No. II. Infirmary District.

The influence of the season was shown by the large increase (from 33 to 59) in the number of cases of Diarrhœa and Dysentery; whilst Bronchitis and other diseases of the air passages diminished in prevalence from 173 cases to 140.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

In the week ending June 25th the number of deaths was 175, again less by 14 than in the preceding week, and 104 less than in the corresponding week last year; of this number 10 were caused by Scarlet Fever, and 10 by Fever,—1 in Greengate district by Typhus.

Small-pox carried off 2 persons, one being a child eighteen months old, not vaccinated.

There were 5 deaths from Measles, 3 of which were registered in Chorlton, the district from which the disease seems to have spread. Some of the deaths were occasioned by Diarrhœa.

In London the Registrar General reports that the number of deaths exceeded the average by nearly 100. Measles was still prevalent, but Scarlatina had declined. Diarrhœa had increased from 29 to 62 fatal cases.

The mean temperature of the air at Greenwich was  $58.5^{\circ}$ . At Old Trafford, where the highest mean reading was observed, the temperature was  $56.4^{\circ}$ ; at the Royal Infirmary it was  $54.3^{\circ}$ .

ARTHUR RANSOME, M.B., M.A.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS

*New Cases of Disease coming under Treatment*

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN.		
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	3	1	..	
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles .....	2	..	..	..	1	..	3	..	..	..	..	..	2	..	..	
Scarlatina .....	..	..	..	1	..	5	6	..	1	..	1	2	..	2	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea .....	..	3	..	1	2	2	8	2	..	..	..	1	2	8	6	
Dysentery .....	..	..	..	..	..	..	..	..	1	3	..	..	..	1	..	
Continued Fever .....	..	..	..	..	..	..	..	2	*3	1	†1	†1	1	10	..	
Erysipelas .....	..	..	..	..	1	1	2	..	..	..	..	1	1	2	..	
Rheumatism .....	..	..	1	1	..	1	3	4	2	10	..	..	7	..	3	
Neuralgic Affections .....	..	1	..	..	..	..	1	1	4	6	1	..	2	..	1	
Constitutional Syphilis .....	..	..	..	..	..	..	..	4	1	12	..	1	1	..	..	
Phthisis .....	..	..	..	..	2	..	2	5	..	13	1	2	4	1	1	
Insanity .....	..	..	1	..	..	..	1	3	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh .....	5	5	6	2	..	5	23	4	2	27	..	2	3	5	7	
Pleurisy and Pneumonia .....	..	2	..	..	1	1	4	1	..	..	2	1	1	..	3	
Skin Diseases .....	..	1	..	..	..	..	1	12	..	4	..	..	..	2	9	
Dyspepsia .....	..	3	1	..	4	2	10	4	..	36	1	..	..	5	8	
Accidents and diseases not classified .....	20	7	7	7	3	18	62	61	22	210	..	8	3	41	13	
TOTAL .....	27	22	16	12	14	35	126	103	36	322	7	19	30	78	53	

\* 2 Typhus and 1 Typhoid.

† Febricula.

‡ Typhus.

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

*Medical Officers to whom the Association*

(9) Mr. G. E. WALKER,  
(10) „ ALFRED GODSON,  
(11) „ W. H. SUTCLIFFE,  
(12) „

(13) Mr. H. RUNCIE,  
(14) Dr. WHITEHEAD,  
(15) Mr. W. GOLLICHER,  
(16) „ J. TEALING



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 25th day of June, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.							
... 1,329 .....				... 477. ....			... 646. ...		508.	... 2650.....						Area in Statute Acres.	
... 70,967. ....				... 68,209. ...			... 44,850..		21739	... 24,448 .....						Population in 1861.	
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.			
17	18	19	20	21	22	23	24	25	26	27	28						
..	..	..	..	.	1	..	..	1	1	..	1	9	39	Small-pox .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Chicken-pox .....	..		
..	..	1	..	..	..	..	..	4	..	1	1	12	18	Measles .....	1		
..	..	4	..	..	..	1	..	..	..	..	..	17	20	Scarlatina .....	1		
..	..	..	.	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	1	..	..	1	..	..	2	..	..	1	7	19	Whooping-cough ....	1		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..		
..	..	4	3	..	1	1	5	1	2	2	..	50	70	Diarrhoea .....	..		
..	..	2	..	..	..	..	1	..	..	..	..	9	3	Dysentery .....	..		
..	..	1	1	..	..	1	..	..	1	..	1	24	46	Continued Fever ....	3		
..	..	1	..	..	..	..	1	3	..	1	..	13	13	Erysipelas .....	..		
2	..	7	..	1	1	1	2	..	1	1	4	51	76	Rheumatism .....	1		
1	..	5	..	..	..	..	..	..	..	..	..	22	13	Neuralgic Affections ..	..		
..	..	2	..	..	..	..	..	..	..	..	3	26	30	Constitutional Syphilis	..		
..	..	5	..	..	1	..	..	1	..	2	..	40	60	Phthisis .....	6		
1	2	..	..	..	..	..	..	..	..	..	..	7	7	Insanity .....	1		
4	..	10	3	1	2	4	4	6	..	6	2	127	180	Bronchitis, Influenza, and Catarrh.....	6		
..	..	1	..	..	..	..	..	..	..	..	..	13	15	Pleurisy & Pneumonia.	1		
..	2	7	1	1	2	1	..	3	2	..	14	61	55	Skin Disease.....	..		
..	..	9	1	1	2	1	2	2	3	2	1	88	79	Dyspepsia .....	..		
5	2	72	1	8	2	1	2	40	4	39	35	640	795	Accidents and diseases not classified.....	18		
13	6	138	10	12	13	11	17	63	14	54	63	1216	1540	TOTAL.....	39		

indebted for the annexed Returns.

- (17) Dr. SAMUEL BOOTH,

(18) Mr. M. O. LARMUTH,

(19) „ J. O. BRADBURY,

(20) „ W. B. STOTT,
- (21) Mr. JOHN SMITH,

(22) Dr. ALEX. WILSON,

(23) Mr. H. M. WILLIAMSON

(24) „ JOSEPH FOSTER,
- (25) Mr. JOHN RAYNER,

(26) „ J.V.L.WESTMACOTT,

(27) „ JOHN HOLDEN,

(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	1	..	..	..	..	..	..	..	..	..	c1	2	7
Measles .....	..	..	..	..	..	1	..	..	3	1	..	5	8
Whooping-cough.....	..	1	..	..	..	1	..	..	1	..	..	3	5
Scarlatina .....	1	2	..	1	2	1	..	..	1	3	..	10	22
Diarrhoea .....	..	..	..	1	..	2	..	1	1	2	..	7	8
Fever .....	..	3	1	1	..	2	..	2	..	1	..	10	6
Diseases of the Lungs ..	7	9	4	2	..	7	3	..	4	6	1	43	50
Other causes.....	9	8	15	6	7	9	9	66	8	12	6	95	173
TOTAL NO. OF DEATHS.	18	23	20	11	9	23	12	9	17	25	8	175	279
TOTAL NO. OF BIRTHS.	39	41	14	17	16	15	21	27	33	65	13	301	360

a 1 Typhus, and 1 Infantile remittent.      b 2 Inquests.      c Aged 18 months, not vaccinated.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL.	DISEASE.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL
8	6	4	18	..... Small-pox.....	46	51	42	139
17	15	26	58	..... Chicken-pox .....	7	11	9	27
22	16	12	50	..... Measles .....	17	57	54	128
28	35	35	98	..... Scarlatina.....	103	108	53	264
6	3	6	15	..... Diphtheria .....	1	1	..	2
79	102	74	255	.... Whooping-cough .....	72	71	29	172
2	6	5	13	..... Croup.....	4	6	3	13
560	595	543	1698	..... Diarrhoea .....	166	150	121	437
7	4	1	12	..... Dysentery.....	15	15	15	45
1	..	..	1	..... Cholera .....	..	..	..	..
18	23	9	50	..... Erysipelas.....	37	23	22	82
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
26	27	25	78	..... Insanity .....	53	67	41	161
995	1169	724	2888	. Bronchitis and Catarrh..	1251	1109	525	2885
7	18	8	33	..... Pleurisy .....	73	84	54	211
32	39	31	102	..... Pneumonia .....	..	..	..	..
6	8	7	21	..... Carbuncle.....	..	..	..	..
3365	4914	3496	11775	{ Accidents, and all other Diseases. }	4593	5380	4099	14572
5179	6980	5006	17165	..... TOTAL .....	6438	7633	5067	19138

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN MAY : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Old Trafford..	3.175	.....	10						
Royton .....	2.895	.....	11						
Bowdon .. ...	2.893	.....	11						
Eccles.....	2.982	.....	11						
Castleton Moor	3.348	.....	12						
Height of barometer cistern above sea level.....				130 ft.	123 ft	127 ft.	522 ft.	221 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.033	30.044	30.048	30.026	30.040	30.048
Highest.....				30.138	30.154	30.144	29.673	30.058	29.733
Lowest .....				29.784	29.788	29.752	29.299	29.686	29.332
Range .....				0.354	0.361	0.392	0.374	0.372	0.356
Temperature.									
Adopted Mean .....				54.3	56.4	55.0	54.3	55.2	51.7
Range for Week .....				17.8	24.9	24.8	22.8	20.8	19.3
Daily Range .....				12.0	15.2	14.7	14.9	12.3	11.1
Maximum in Shade .....				65.2	71.6	70.7	67.4	68.3	64.1
Minimum in Shade .....				47.4	46.7	45.9	44.6	47.5	44.8
Temperature of Dew Point .....				48.4	49.4	48.9	50.3	49.7	48.9
Hygrometrical condition of the Atmosphere				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.800	0.804	0.804	0.865	0.800	0.906
Prevailing Winds .....					SW	W,SW	W,SW	W,SW	W,SW
Rain .....					0.763	0.674	0.845	0.797	1.150

June 25, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, JULY 2, 1864. [No .205.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The total number of new cases of disease coming under treatment in Public and Charitable Institutions during the week ending July 2nd was 1,293, being an increase of 77 cases upon the preceding week; an increase, however, chiefly due to the diseases not classified. In the corresponding week last year there were no fewer than 1,780 cases.

There were 11 cases of Small-pox, 2 more than in the preceding week, but no deaths from this cause are recorded.

Measles were less prevalent; only 6 new cases are reported, against 12 in the preceding week,—3 of these occurred in Chorlton, the remaining 3 in St. Peter's Poor Law District; and it is interesting to notice that 2 cases of this disease were reported from this part of the town in the preceding week.

Scarlet Fever had diminished in frequency from 17 to 9 cases; but Continued Fever had risen from 24 cases to 31, 4 of these cases are specially noted as Typhus, 2 as Typhoid.

The number of cases of diseases of the air passages continues steadily to decline; the last three weeks the successive numbers have been 173, 140, and 121.

Diarrhœa and Dysentery have also diminished in frequency from 59 to 50 cases.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The number of deaths in this week was 261; 86 more than in the preceding week, 47 of these, however, are reported as inquests.

There were only 2 deaths from Measles,—one in Chorlton, one in Regent Road.

Scarlet Fever carried off 15 persons, and the number of deaths from Diarrhœa was 14, twice the number returned in the preceding week.

Fever seems to increase in virulence, 12 deaths were ascribed to this cause,—1 from Typhus, in Greengate, and 1 in Hulme.

In London the total number of deaths exceeded the average by 55. Diarrhœa was increasing in prevalence but not rapidly, and Measles is reported as being widely spread, and in some districts very fatal.

The mean temperature of the air at Greenwich was  $57.4^{\circ}$ ,  $3.9^{\circ}$  below the average of forty-three years. The lowest reading in this neighbourhood was reported from Castleton Moor,  $51.1^{\circ}$ . The highest,  $55.1^{\circ}$ , occurred at Old Trafford.

The fall of rain at the several stations in June was as follows:—Castleton Moor 3.713 inches of rain fell in nineteen days; at Royton 3.450 inches in eighteen days; and, at Old Trafford, 2.945 inches in 20 days.

ARTHUR RANSOME, M.B., M.A.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS

*New Cases of Disease coming under Treatment*

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN.		St. Mary's Hospital.	Clinical
								In-patients.	Out-patients.	District I.	District II.	District III.				
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	..	2	..	..	..	2	..	1	2	..	..	2	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
Measles .....	3	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	..	1	..	2	3	..	..	..	..	..	1	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	2	..	..	..	2	..	..	..	..	..	..	2	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	1	..	..	2	1	2	6	..	..	7	..	..	1	9	..	..
Dysentery .....	1	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..
Continued Fever .....	*1	..	3	+2	..	+2	8	4	..	..	..	..	1	7	..	..
Erysipelas .....	..	..	..	..	1	..	1	1	..	1	1	..	..	..	..	..
Rheumatism .....	..	2	2	..	3	1	8	4	1	11	1	2	5	..	..	..
Neuralgic Affections .....	..	..	..	..	..	..	..	1	2	4	..	1	..	..	..	..
Constitutional Syphilis .....	1	..	..	..	..	..	1	4	..	6	..	..	..	1	..	..
Phthisis .....	..	1	..	1	2	..	4	..	1	25	2	2	4	1	..	..
Insanity .....	1	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	3	2	5	3	4	3	20	9	..	29	..	2	2	3	..	..
Pleurisy and Pneumonia .....	1	..	1	..	1	..	3	2	..	..	..	..	1	..	..	..
Skin Diseases .....	..	..	..	1	2	..	3	11	..	18	..	..	..	5	..	..
Dyspepsia .....	..	..	1	..	6	..	7	4	4	33	..	..	..	3	1	..
Accidents and diseases not classified .....	19	3	11	4	3	19	59	76	47	225	3	3	3	44	1	..
TOTAL .....	31	8	27	14	23	30	133	119	56	361	7	10	21	77	51	..

Typhoid.

+ 1 Typhus and 1 Febricula.

+ 1 Typhus.

*Medical Officers to whom the Association are indebted for their assistance.*

(1) Mr. R. M. MANN.

(2) " J. BROADBENT,

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(5) Dr. JOHN MEDD,

(6) " LEDWARD,

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(9)

(10) Mr. G. E. WALKER,

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(13) Mr. H. RUIZ,

(14) Dr. WHITE,

(15) Mr. W. GOULD,



ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.  
Week ending the 2nd day of July, 1864

SALFORD.				HULME.			CHORLTON.	ARDWICK.	PENDLETON AND PENDLEBURY.						
1,329 .....				477 .....			646...	508.	2650.....				Area in Statute Acres.		
70,967. ....				68,209. ..			44,850..	21739	24,448 .....				Population in 1861.		
R <small>EGENT</small> L <small>AW</small> T <small>RICT</small>	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.									
17	18	19	20	21	22	23	24	25	26	27	28				
81	2	..	..	.	1	..	..	..	..	..	..	11	36	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	3	4	Chicken-pox .....	..
..	..	..	..	..	..	..	..	3	..	..	..	6	18	Measles .....	..
..	..	1	..	..	1	..	..	..	..	1	..	9	32	Scarlatina .....	1
..	..	..	.	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..
..	..	..	..	..	1	..	..	..	..	..	..	6	25	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..
..	..	2	5	1	..	..	1	4	3	2	2	47	69	Diarrhoea .....	..
..	..	1	..	..	..	..	..	..	..	..	..	3	10	Dysentery .....	..
1	1	2	..	..	..	1	1	..	1	* 1	1	31	45	Continued Fever ....	3
..	..	..	1	..	..	..	..	..	..	..	1	6	11	Erysipelas .....	..
1	..	5	1	..	..	1	1	2	2	2	4	56	107	Rheumatism .....	..
..	..	2	..	..	3	..	..	..	1	..	..	15	23	Neuralgic Affections ..	..
..	..	3	..	..	..	..	..	..	1	..	6	22	36	Constitutional Syphilis	..
..	..	4	..	..	..	..	3	1	2	1	2	56	48	Phthisis .....	6
..	4	..	..	..	..	..	..	..	1	..	5	14	10	Insanity .....	1
2	1	10	3	1	1	2	3	2	4	5	4	113	172	Bronchitis, Influenza, and Catarrh.....	2
..	..	1	..	..	..	..	..	..	..	1	..	8	27	Pleurisy & Pneumonia.	1
..	3	16	..	1	..	..	2	2	2	..	14	85	62	Skin Disease.....	..
3	..	4	..	..	3	1	5	1	3	2	7	95	67	Dyspepsia .....	..
5	3	86	..	4	8	1	4	32	5	33	46	707	976	Accidents and diseases not classified.....	27
13	14	137	10	7	18	6	20	47	25	48	92	1293	1780	TOTAL.....	41

8 not vaccinated, aged 4 years.

|| Typhus.

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,

(18) Mr. M. O. LARMUTH,

(19) " J. O. BRADBURY,

(21) Mr. JOHN SMITH,

(22) Dr. ALEX. WILSON,

(23) Mr. H. M. WILLIAMSON,

(24) " JOSEPH POSTER

(25) Mr. JOHN RAYNER,

(26) " J.V.L. WESTMACOTT,

(27) " JOHN HOLDEN,

(28) " J. WATSON



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	1	..	1	..	..	2	6
Measles .....	..	..	..	..	..	..	1	..	..	..	..	2	12
Whooping-cough .....	1	5	..	..	..	3	4	..	..	..	..	2	7
Scarlatina .....	3	1	1	1	1	1	3	1	..	2	..	15	26
Diarrhoea .....	1	1	1	1	1	1	3	1	..	1	1	14	15
Fever .....	12	2	2	9	d1	..	e2	..	f1	h3	d1	12	7
Diseases of the Lungs ..	a24	b30	26	c7	19	5	9	3	g12	i27	g12	43	45
Other causes .....	..	..	..	..	..	4	..	..	..	..	..	173	161
<b>TOTAL NO. OF DEATHS.</b>	41	39	30	18	21	14	20	4	18	42	14	261	279
<b>TOTAL NO. OF BIRTHS.</b>	40	42	22	17	14	15	31	18	19	56	27	301	345

a 10 Inquests. b 11 Inquests. c 4 Inquests. d Typhus. e 1 Gastric. f Gastric, aged 11 months. g 5 Inquests.  
h 1 Typhus. i 17 Inquests.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL.	DISEASE.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL
8	6	4	18	..... Small-pox .....	46	51	42	139
17	15	26	58	..... Chicken-pox .....	7	11	9	27
22	16	12	50	..... Measles .....	17	57	54	128
23	35	35	98	..... Scarlatina .....	103	108	53	264
6	3	6	15	..... Diphtheria .....	1	1	..	2
79	102	74	255	.... Whooping-cough ....	72	71	29	172
2	6	5	13	..... Croup .....	4	6	3	13
560	595	543	1698	..... Diarrhoea .....	166	150	121	437
7	4	1	12	..... Dysentery .....	15	15	15	45
1	..	..	1	..... Cholera .....	..	..	..	..
18	23	9	50	..... Erysipelas .....	37	23	22	82
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
26	27	25	78	..... Insanity .....	53	67	41	161
995	1169	724	2888	.Bronchitis and Catarrh..	1251	1109	525	2885
7	18	8	33	..... Pleurisy .....	73	84	54	211
32	39	31	102	..... Pneumonia .....	..	..	..	..
6	8	7	21	..... Carbuncle .....	..	..	..	..
3365	4914	3496	11775	{ Accidents, and all other Diseases. }	4593	5380	4099	14572
5179	6980	5006	17165	..... TOTAL .....	6438	7633	5067	19138

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN JUNE : Inches. Wet Days.			Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	3.713	19						
Royton .....	3.450	18						
Old Trafford..	2.945	20						
Bowdon .. ..	.....	..						
Eccles .....	.....	..						
Height of barometer cistern above sea level .....			130 ft.	123 ft		522 ft.		475 ft.
<b>Barometer.</b>			INS.	INS.		INS.		INS.
Mean @ 32° F., and reduced to sea level .....			29.987	29.940		29.936		29.920
Highest .....			30.168	30.165		29.658		29.746
Lowest .....			29.404	29.399		28.907		28.980
Range .....			0.764	0.766		0.751		0.766
<b>Temperature.</b>					NO RETURN.		NO RETURN.	
Adopted Mean .....			52.1	55.1		52.5		51.1
Range for Week .....			16.6	22.3		25.6		21.7
Daily Range .....			7.5	12.4		12.9		10.0
Maximum in Shade .....			62.0	65.8		63.8		
Minimum in Shade .....			45.4	43.5		38.2		
Temperature of Dew Point .....			44.4	47.9		48.2		44.4
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.		GRS.		GRS.
Degree of Humidity (Saturation—1,000) .....			0.730	0.765		0.854		0.705
Prevailing Winds .....				NW, SW		NW, SW		NW, SW
Rain .....				1.196		1.080		1.481

July 2, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

PL. IV.] WEEK ENDING SATURDAY, JULY 9, 1864. [No. 206.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending July 9th, 1,207 new cases of disease occurred in connection with the Public Charitable Institutions and Poor Law Unions: in the preceding week the total number was 1,293, and in the corresponding one of last year 1,598.

There were 18 new cases of Small-pox, 7 more than in the previous return; 5 of them occurred among the patients of the Salford Dispensary, and 3 among the out-patients of the Royal Infirmary.

Measles, likewise, exhibits an increase, the respective numbers being 6 and 15.

Of 12 persons attacked by Scarlet Fever 3 were patients of the Clinical Hospital.

The seizures from Continued Fever amounted to 32, of which 3 are referred to as examples of Typhoid, and 4 of Typhus Fever. Inasmuch as the latter disorder is the most contagious form of Continued Fever it is satisfactory to observe that these 4 cases were all removed from their homes,—1 of them to the Royal Infirmary, the remaining 3 to the Salford Workhouse.

Diarrhoea and Dysentery contributed 59 cases, or 9 more than in the previous week.

From Bronchitis and kindred affections of the chest the respective numbers during the two last weeks were 121 and 123. The experience of past years would appear to show that these disorders have probably, at the present time, attained their minimum degree of severity.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The deaths registered in the eleven districts did not exceed 179; in the corresponding week of last year they reached 247. Thus the present return, and those indeed for several of the past weeks, may be looked upon as highly satisfactory.

The mortality from diseases of the zymotic order was far below the average. From small-pox there was only 1 death, from Measles none, and from Scarlet Fever 8; from these three diseases in the corresponding week of last year 39 persons were shown to have died.

Diarrhoea and Dysentery carried off 17 persons: in the two preceding weeks the numbers were 7 and 14. We thus see that the fatality from these disorders is increasing in a more marked degree than we might be led to expect were we dependent solely on our disease returns.

In London, according to the Registrar General, the deaths exceeded the average by about 100. Thus the public health in the metropolis would appear less satisfactory than in Manchester.

At the Royal Observatory, Greenwich, the mean temperature of the air was 56.5°, or about 5° below the average of the same week in forty-three years; at Old Trafford it was 55°, and at the Royal Infirmary 53°. Very little rain fell during the week, either in London or this neighbourhood.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.



MANCHESTER AND SA

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN.		
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	1	..	..	†1	..	..	2	2	1	3	..	..	2	..	
Chicken-pox .....	..	1	..	..	..	..	1	..	..	..	..	..	1	..	
Measles .....	..	1	..	..	1	..	2	..	..	..	..	..	1	..	
Scarlatina .....	..	..	..	..	..	..	..	..	..	..	..	1	..	1	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Diarrhoea .....	1	..	..	..	4	1	6	..	..	12	..	1	2	9	1
Dysentery .....	..	..	1	..	..	..	1	..	..	..	..	..	..	2	
Continued Fever .....	..	*2	2	†1	..	2	7	9	§1	..	..	1	..	4	
Erysipelas .....	..	..	..	1	..	..	1	..	..	..	..	..	..	..	
Rheumatism .....	..	..	2	..	1	..	3	6	4	9	2	..	5	1	
Neuralgic Affections .....	..	..	..	..	..	..	..	..	2	6	1	..	..	1	
Constitutional Syphilis .....	..	..	1	..	..	..	1	7	..	7	..	3	..	..	
Phthisis .....	..	..	1	..	3	..	4	3	..	19	..	2	3	..	
Insanity .....	..	..	..	..	1	..	1	4	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	1	4	1	..	5	1	12	12	..	20	2	2	3	5	8
Pleurisy and Pneumonia .....	..	..	..	..	..	2	2	..	..	3	..	..	1	..	1
Skin Diseases .....	..	..	..	..	2	..	2	9	..	13	..	..	..	3	11
Dyspepsia .....	..	..	..	..	6	..	6	..	1	29	..	..	..	3	6
Accidents and diseases not classified .....	20	12	9	4	5	14	64	40	19	208	4	7	8	30	16
TOTAL .....	23	20	17	7	28	20	115	92	28	329	9	17	26	62	69

\* Febricula. † Modified. ‡ Typhoid. § Typhus.

Medical Officers to whom the Association are indebted for their services during the year 1861.

1) Mr. R. M. MANN.	(5) Dr. JOHN MEDD,	(9) Mr. G. E. WALKER,	(13) Mr. H. RU
(2) „ J. BROADBENT,	(6) „ LEDWARD,	(10) „ ALFRED GODSON,	(14) Dr. WHITE
(3) „ JOHN ARMSTRONG,	(7) Mr. A. PHILIPPS,	(11) „ W. H. SUTCLIFFE,	(15) Mr. W. GO
(4) Dr. BRADDON,	(8) Dr. GEORGE REED,	(12) „	(16) „ J. TEA



# ANITARY ASSOCIATION.

## NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 9th day of July, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
1,329 .....				477. ....			646. ...		508.	2650.....						
70,967. ....				68,209. ...			44,850. ...		21739	24,448 .....						
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
17	18	19	20	21	22	23	24	25	26	27	28					
1	..	5	..	..	..	..	..	2	..	..	..	18	19	Small-pox .....	1	
..	..	..	..	..	..	..	..	..	1	..	..	3	8	Chicken-pox .....	..	
..	..	4	..	..	..	1	..	2	2	1	2	15	10	Measles .....	..	
..	..	1	..	1	1	..	..	..	..	2	..	12	31	Scarlatina .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	2	22	Whooping-cough ....	1	
..	..	..	..	..	..	..	..	..	..	..	..	1	3	Croup .....	..	
..	1	..	2	..	1	1	..	1	2	1	..	51	98	Diarrhoea .....	3	
..	..	1	..	..	..	..	1	..	..	..	..	8	10	Dysentery .....	..	
..	§3	3	..	..	..	..	..	..	1	‡2	..	32	39	Continued Fever ....	1	
..	..	1	..	..	..	..	..	..	..	..	..	3	14	Erysipelas .....	..	
..	..	5	1	..	2	..	..	4	1	2	1	50	71	Rheumatism .....	..	
..	..	2	..	..	..	..	..	..	..	..	..	14	20	Neuralgic Affections ..	..	
..	..	1	..	..	..	1	1	..	..	..	2	26	53	Constitutional Syphilis	..	
2	..	4	..	..	..	..	..	2	1	1	1	46	67	Phthisis .....	8	
1	2	..	..	..	..	..	..	..	..	..	6	14	4	Insanity .....	3	
2	2	14	5	..	4	4	..	8	3	4	1	115	162	Bronchitis, Influenza, and Catarrh .....	3	
..	..	1	..	..	..	..	..	..	..	..	..	8	17	Pleurisy & Pneumonia.	..	
1	1	2	1	1	..	1	2	1	1	..	10	60	76	Skin Disease.....	..	
..	1	13	2	1	4	1	2	1	5	3	1	82	89	Dyspepsia .....	..	
11	5	91	..	4	2	2	3	41	3	36	43	647	784	Accidents and diseases not classified.....	19	
18	15	148	11	7	14	11	9	62	20	52	67	1207	1593	TOTAL.....	39	

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	..	..	..	..	..	..	..	..	1	5
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	8
Whooping-cough.....	2	1	..	..	..	1	..	..	1	1	1	7	10
Scarlatina .....	2	..	..	..	..	2	1	..	..	3	..	8	26
Diarrhoea .....	7	2	..	..	2	1	1	..	..	2	2	17	15
Fever .....	2	..	2	..	..	..	..	1	61	..	..	6	7
Diseases of the Lungs ..	3	7	2	2	..	4	1	1	4	8	1	33	50
Other causes.....	10	8	15	9	10	a7	11	6	6	16	9	107	126
TOTAL NO. OF DEATHS.	26	18	20	11	12	15	14	8	12	30	13	179	247
TOTAL NO. OF BIRTHS.	37	35	11	19	24	39	37	16	26	60	29	333	282

a 2 Inquests.

b Gastric, aged 33 years.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
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Population in 1861, 390,815.

4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL.	DISEASE.	4 Weeks ending 26th March.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	TOTAL
8	6	4	18	..... Small-pox.....	46	51	42	139
17	15	26	58	..... Chicken-pox .....	7	11	9	27
22	16	12	50	..... Measles .....	17	57	54	128
28	35	35	98	..... Scarlatina.....	103	108	53	264
6	3	6	15	..... Diphtheria .....	1	1	..	2
79	102	74	255	.... Whooping-cough ....	72	71	29	172
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560	595	543	1698	..... Diarrhoea .....	166	150	121	437
7	4	1	12	..... Dysentery.....	15	15	15	45
1	..	..	1	..... Cholera .....	..	..	..	..
18	23	9	50	..... Erysipelas.....	37	23	22	82
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
26	27	25	78	..... Insanity .....	53	67	41	161
995	1169	724	2888	.. Bronchitis and Catarrh..	1251	1109	525	2885
7	18	8	33	..... Pleurisy .....	73	84	54	211
32	39	31	102	..... Pneumonia .....	..	..	..	..
6	8	7	21	..... Carbuncle.....	..	..	..	..
3365	4914	3496	11775	{ Accidents, and all other Diseases. }	4593	5880	4099	14572
5179	6980	5006	17165	..... TOTAL .....	6438	7633	5067	19138

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN JUNE : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	3.713	.....	19						
Royton .....	3.450	.....	18						
Old Trafford..	2.945	.....	20						
Bowdon .....	.....	.....	..						
Eccles.....	.....	.....	..						
Height of barometer cistern above sea level.....				130 ft.	123 ft		522 ft.		475 ft.
<b>Barometer.</b>				INS.	INS.		INS.		INS.
Mean @ 32° F., and reduced to sea level.....				30.043	30.055		30.038		30.032
Highest.....				30.164	30.123		29.653		29.743
Lowest .....				29.574	29.469		29.017		29.100
Range .....				0.590	0.659		0.636		0.643
<b>Temperature.</b>									
Adopted Mean .....				53.0	55.0		52.8		52.0
Range for Week .....				22.7	26.8		25.0		22.8
Daily Range.....				13.3	16.7		17.4		14.1
Maximum in Shade .....				69.9	72.8		66.8		65.5
Minimum in Shade .....				47.2	46.0		41.8		42.7
Temperature of Dew Point .....				47.6	47.8		46.2		45.3
<b>Hygrometrical condition of the Atmosphere.</b>									
Degree of Humidity (Saturation—1,000).....				GRS. 0.782	GRS. 0.768		GRS. 0.782		GRS. 0.775
Prevailing Winds .....					WNW, NE		NW, NE		NW, NE
Rain .....					0.082		0.040		0.033

July 9, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.]

WEEK ENDING SATURDAY, JULY 16, 1864.

[No. 207.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

There were 1256 new cases of disease in connection with the Public Charitable Institutions and Poor Law Unions. In the preceding week there were 1207 and in the corresponding one of last year 1629. Of the zymotic disorders Measles especially prevailed, the number of seizures amounting to 22. The majority of the cases continue to occur in Chorlton; thus 6 were observed at the Chorlton Union Workhouse and 5 at the Dispensary. There were 10 cases of Small Pox, 8 fewer than in the previous week; and 7 from Scarlet Fever. The latter return is very favourable, and it may be hoped that this disorder, which has so long prevailed as an epidemic, is now gradually disappearing. As the season advances Diarrhœa and Dysentery gain ground, the respective numbers during the last 3 weeks being 50, 59, and 75. In the two last corresponding weeks of last year the seizures were considerably more numerous—98 and 171. Bronchitis and kindred Affections of the Chest have remained singularly stationary; for some weeks the three last recorded numbers under this column being 121, 123, and 122. Of 37 cases of Continued Fever 3 were examples of Typhoid and 2 of Typhus, both the latter occurred in Salford, one of them being admitted as a patient of the Workhouse.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The Death Return is again favorable, the number (179) exactly corresponding with that registered in the preceding week. Moreover many of the particular diseases which proved fatal occurred very nearly to the same extent as at that time. Thus, in both returns the Scarlet Fever deaths amounted to 8, those arising from causes not severally specified to 107. Those from Diarrhœa were 17 and 16 respectively; those from Diseases of the Lungs, 33 and 36; and those from Fever, 6 and 4. From Measles, however, there were 4 deaths last week—in the previous week none. In London, according to the last return of the Registrar General, the deaths exceeded the average by 88. There, likewise, Diarrhœa and Measles are very prevalent. This return contains the monthly analysis of the water supplied to London, and the Manchester Water supply. The total impurity in every gallon of the latter did not exceed  $3\frac{1}{2}$  grains. In the former it varied from 25 to 15. The Loch Katrine water supplied to Glasgow, however, is still purer than that of Manchester. It is singular how slight is the variation in the amount of impurity contained in these two supplies of Water. At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 60·8; at Old Trafford (at this season of the year usually the warmest of the Manchester stations), it was 58·7; at Greenwich, the maximum degree of temperature in the shade was 79; at Old Trafford, 81·7. North-easterly winds very generally prevailed. No rain was measured in this neighbourhood, and only 50 of an inch in London.

JOHN ED. MORGAN. M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN.		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical School.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	..	1	2	..	..	3	3	..	..	..	..	..	..	..	
Chicken-pox .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Measles .....	..	..	..	..	1	..	1	..	..	1	..	..	3	1	..	
Scarlatina .....	1	..	..	..	..	1	2	..	..	..	..	..	..	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	1	..	1	..	..	2	..	..	..	3	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Diarrhœa.....	2	1	..	1	6	1	11	4	..	4	1	..	1	18	..	
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Continued Fever.....	2	*1	1	3	..	†1	8	9	*1	..	*1	†1	1	8	..	
Erysipelas .....	..	..	1	..	1	..	2	..	..	3	..	..	..	..	..	
Rheumatism .....	..	..	..	..	3	..	3	7	1	10	..	..	9	..	..	
Neuralgic Affections .....	..	..	..	..	..	..	..	..	1	2	1	..	..	..	..	
Constitutional Syphilis .....	1	1	..	..	1	..	3	8	..	12	..	..	..	..	..	
Phthisis .....	1	1	..	..	3	..	5	4	..	21	1	4	3	..	..	
Insanity .....	..	..	1	..	..	..	1	1	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	2	2	3	1	5	2	15	12	1	25	2	..	3	1	..	
Pleurisy and Pneumonia....	..	..	..	..	..	..	..	2	1	..	..	..	1	..	..	
Skin Diseases.....	1	..	..	..	..	1	2	19	..	19	1	..	..	1	..	
Dyspepsia .....	..	..	1	..	4	1	6	6	1	21	2	..	..	4	1	
Accidents and diseases not classified.....	18	8	8	2	5	10	51	39	36	236	4	5	1	45	1	
TOTAL .....	28	14	16	9	30	17	114	115	42	356	13	10	22	83	5	

\* Typhoid. † Febricula. ‡ Typhus.

Medical Officers to whom the Assoc

- |                       |                      |                         |                |
|-----------------------|----------------------|-------------------------|----------------|
| 1) Mr. R. M. MANN.    | (5) Dr. JOHN MEDD,   | (9) Mr. G. E. WALKER,   | (13) Mr. H. R. |
| 2) " J. BROADBENT,    | (6) " LEDWARD,       | (10) " ALFRED GOLSON,   | (14) Dr. WHITE |
| (3) " JOHN ARMSTRONG, | (7) Mr. A. PHILIPPS, | (11) " W. H. SUTCLIFFE, | (15) Mr. W. G. |
| (4) Dr. BRADDON,      | (8) Dr. GEORGE REED, | (12) " W. H. SUTCLIFFE, | (16) " J. TE   |



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 16th day of July, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						
1,329 .....				477 .....			646 .....		508 .....	2650 .....				Area in Statute Acres.		
70,967. ....				68,209. ....			44,850 .....		21739 .....	24,448 .....				Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28					
..	..	2	..	..	..	1	..	..	..	..	1	10	36	Small-pox .....	1	
..	..	1	..	..	..	..	..	..	..	..	..	2	2	Chicken-pox .....	..	
..	..	3	..	..	..	..	1	5	1	..	6	22	20	Measles .....	..	
..	..	2	..	..	..	..	..	1	..	2	..	7	27	Scarlatina .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	..	..	..	..	2	..	..	1	11	14	Whooping-cough .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	1	Croup .....	..	
1	1	6	6	3	1	..	..	2	4	2	1	74	171	Diarrhoea .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	13	Dysentery .....	..	
†1	†1	..	1	..	†1	1	..	..	..	1	..	37	33	Continued Fever .....	1	
..	..	2	..	..	..	..	..	..	..	..	..	7	7	Erysipelas .....	..	
..	..	4	1	..	..	..	1	1	1	3	3	44	47	Rheumatism .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	6	17	Neuralgic Affections ..	..	
..	1	2	..	..	..	2	1	1	..	..	2	34	41	Constitutional Syphilis	..	
1	..	5	..	1	..	..	1	..	2	2	1	53	59	Phthisis .....	5	
..	2	..	..	..	..	..	..	..	..	..	2	6	6	Insanity .....	..	
4	1	13	4	3	3	3	4	2	2	6	1	114	197	Bronchitis, Influenza, and Catarrh .....	5	
1	..	1	..	..	..	1	..	..	..	..	..	8	22	Pleurisy & Pneumonia.	..	
..	5	6	..	1	..	..	..	6	..	..	8	74	52	Skin Disease .....	..	
1	..	11	1	..	2	2	3	..	3	3	7	93	65	Dyspepsia .....	..	
3	6	60	..	2	10	3	7	35	3	41	46	652	798	Accidents and diseases not classified .....	28	
12	17	118	13	10	17	13	18	55	16	60	79	1256	1629	TOTAL .....	43	

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	61	..	..	e1	2	4
Measles .....	1	..	..	2	..	..	1	..	..	..	..	4	13
Whooping-cough .....	..	..	..	..	1	..	..	..	1	..	..	2	7
Scarlatina .....	1	1	..	..	1	..	..	..	..	5	..	8	21
Diarrhoea .....	2	4	..	..	3	2	2	..	..	3	..	16	31
Fever .....	..	..	..	..	..	1	..	..	d1	2	..	4	4
Diseases of the Lungs ..	8	4	3	1	..	6	2	..	4	5	3	36	36
Other causes .....	11	5	18	7	12	a6	a15	c8	8	11	6	107	119
TOTAL NO. OF DEATHS.	23	14	21	10	17	15	20	9	14	26	10	179	235
TOTAL NO. OF BIRTHS.	37	43	16	10	22	29	30	16	29	48	23	303	307

a 2 Inquests. b Aged 3 weeks. c 2 Croup. d Continued, aged 27 years. e aged 2½ years, not vaccinated.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	..... Small-pox .....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	..... Scarlatina .....	108	53	79	240
3	6	1	10	..... Diphtheria .....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	..... Croup .....	6	3	1	10
595	543	1064	2202	..... Diarrhoea .....	150	121	138	409
4	1	5	10	..... Dysentery .....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	..... Erysipelas .....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	. Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	..... Carbuncle .....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JUNE :			Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.						
Castleton Moor	3.713	..... 19						
Royton .....	3.450	..... 18						
Old Trafford..	2.945	..... 20						
Bowdon .....	.....	..... ..						
Eccles.....	.....	..... ..						
Height of barometer cistern above sea level.....			130 ft.	123 ft		522 ft.		475 ft.
<b>Barometer.</b>			INS.	INS.		INS.		INS.
Mean @ 32° F., and reduced to sea level.....			30.127	30.145		30.129		30.125
Highest.....			30.124	30.149		29.677		29.744
Lowest .....			30.064	30.048		29.591		29.658
Range .....			0.060	0.101		0.086		0.086
<b>Temperature.</b>								
Adopted Mean .....			58.3	58.7		57.6		56.2
Range for Week .....			29.2	35.7		32.4		29.2
Daily Range.....			20.8	26.4		22.8		22.8
Maximum in Shade .....			78.3	81.7		76.7		75.7
Minimum in Shade .....			49.1	46.0		44.3		46.5
Temperature of Dew Point .....			51.2	51.5		50.9		51.1
<b>Hygrometrical condition of the Atmosphere.</b>			GRS.	GRS.		GRS.		GRS.
Degree of Humidity (Saturation—1,000).....			0.775	0.772		0.780		0.834
Prevailing Winds .....				NE,S		E,NE		E,NE
Rain .....				0		0		0

July 16, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, JULY 23, 1864.

[No. 208.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating July 23rd 1,336 new cases of disease occurred in connection with the Public Charitable Institutions and Poor Law Unions; in the preceding week there were 1,256, and in the corresponding one of last year 1,575.

Among the zymotic diseases it is satisfactory to find that Small-pox is considerably less prevalent than it was, the respective numbers for the three last weeks being 18, 10, and 5.

The seizures from Measles amounted to 19, 3 fewer than in the previous week; under Scarlet Fever, however, we find an increase of 9 cases.

Of 26 persons who experienced attacks of Continued Fever 4 suffered from Typhus and 2 from Typhoid Fever; two of the former were admitted as in-patients of the Workhouse at Salford. During the last three weeks no fewer than 6 cases of this malignant and contagious disorder appear to have been received into the wards of this Institution.

We again observe a slight falling off under Bronchitis and kindred chest affections, the numbers of the three last weeks being 123, 122, and 114.

As might have been anticipated from the rise in the temperature of the air we find a remarkable increase under Diarrhœa and Dysentery; in the week ending July 16th there were 75 cases, last week 113.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week there was a considerable increase in the number of deaths registered in the eleven districts. In each of the two preceding weeks the total amounted to 179, last week to 233.

There was an increase of 5 under Measles, of 4 under Scarlet Fever, and 3 under Continued Fever. The deaths from Diarrhœa rose from 16 to 38; the increase in this column is doubtless to be ascribed to the weather.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 133. There, likewise, the increase under Diarrhœa was remarkable. In the week ending July 16th the deaths from this cause did not amount to 100, last week they rose to 145; all, with the exception of 14, occurred in children under two years of age. It is impossible to doubt but that both in the metropolis and here the general increase in the mortality of the week was due to the hot weather. It has frequently been observed that when the mean temperature of the air rises to 60° the sickness, more especially that connected with the alimentary canal, increases.

At the Greenwich Observatory the mean temperature of the air was 66·5°, or about 5° above the average of the last forty-three years. The highest day temperature was 85·6°, and occurred on the Wednesday. In Manchester the heat was much less trying, the mean reading of the thermometer being at Old Trafford 60·5°, and at the Infirmary 60°. In London no rain was measured, in this neighbourhood about a quarter of an inch.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALT

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....								Manchester Township 1,645 .....								
Population in 1861 .....								,, ,, 185,050 .....								
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN.		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	..	..	1	..	1	2	1	..	..	..	..	..	..	..	
Chicken-pox .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	
Scarlatina .....	..	1	1	..	..	3	5	..	..	..	..	..	2	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	1	2	3	1	2	3	12	..	..	2	..	..	2	34	..	
Dysentery .....	..	..	..	..	..	1	1	..	..	1	..	..	..	3	..	
Continued Fever.....	*2	..	1	†1	..	..	4	3	‡1	†1	*1	..	..	5	..	
Erysipelas .....	..	2	..	..	1	..	3	..	..	1	..	1	..	..	..	
Rheumatism .....	..	..	..	..	3	..	3	11	1	12	1	..	1	1	..	
Neuralgic Affections .....	..	..	..	..	..	..	..	..	2	5	..	..	..	..	..	
Constitutional Syphilis .....	..	..	1	..	..	..	1	6	..	4	..	1	..	1	..	
Phthisis .....	..	1	..	..	1	..	2	6	2	17	1	6	3	2	..	
Insanity .....	..	..	..	..	1	..	1	3	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh .....	1	3	2	2	4	2	14	9	..	18	1	1	3	4	..	
Pleurisy and Pneumonia.....	..	..	..	..	..	..	..	2	..	3	2	..	..	..	..	
Skin Diseases.....	..	2	1	..	2	..	5	7	..	10	1	..	1	3	..	
Dyspepsia .....	..	..	1	1	3	..	5	3	1	30	2	1	..	6	16	
Accidents and diseases not classified.....	27	11	5	1	5	16	65	51	30	283	9	..	9	45	8	
TOTAL .....	31	22	15	7	23	26	124	103	37	387	18	10	21	107	53	

\* 1 Typhus.                      † Febricula.                      ‡ Typhoid.

Medical Officers to whom the Association are indebted for their services.

- |                       |                      |                           |                 |
|-----------------------|----------------------|---------------------------|-----------------|
| 1) Mr. R. M. MANN.    | (5) Dr. JOHN MEDD,   | (9) } Mr. G. E. WALKER,   | (13) Mr. H. RUI |
| (2) „ J. BROADBENT,   | (6) „ LEDWARD,       | (10) } „ ALFRED GODSON,   | (14) Dr. WHITE  |
| (3) „ JOHN ARMSTRONG, | (7) Mr. A. PHILLIPS, | (11) } „ W. H. SUTCLIFFE, | (15) Mr. W. GO  |
| (4) Dr. BRADDON,      | (8) Dr. GEORGE REED, | (12) }                    | (16) „ J. TEA   |



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 23rd day of July, 1864

SALFORD.				HULME.			CHORLTON.	ARD-WICK	PENDLETON AND PENDLEBURY.						
1,329 .....				477 .....			646 ..	508 ..	2650 .....			Area in Statute Acres.			
70,967 .....				68,209 ..			44,850 ..	21739 ..	24,448 .....			Population in 1861.			
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
1	..	..	..	..	..	..	..	..	..	1	..	5	21	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	..	1	4	Chicken-pox .....	..
..	..	3	..	..	..	..	2	3	2	4	3	19	14	Measles .....	1
..	..	4	..	..	1	..	..	..	1	2	..	16	32	Scarlatina .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	2	25	Whooping-cough ....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..
3	..	8	4	..	2	5	..	9	4	3	2	103	144	Diarrhoea .....	3
1	..	1	..	..	..	..	2	..	..	..	..	10	8	Dysentery .....	..
..	4	1	..	+1	..	..	..	..	1	..	1	26	39	Continued Fever ....	2
..	..	..	..	..	..	..	..	..	..	..	..	5	8	Erysipelas .....	..
..	1	5	2	3	2	..	..	..	..	3	4	54	66	Rheumatism .....	..
1	..	4	..	..	1	..	..	..	..	..	..	17	17	Neuralgic Affections ..	..
2	1	5	..	..	..	..	..	1	..	..	3	26	47	Constitutional Syphilis	..
..	1	7	..	..	1	1	..	1	1	2	1	55	68	Phthisis .....	3
..	..	..	..	..	..	..	..	..	..	..	7	13	6	Insanity .....	..
3	1	14	3	1	3	3	..	3	4	8	3	104	184	Bronchitis, Influenza, and Catarrh.....	2
..	..	2	..	..	..	..	..	..	..	..	..	10	8	Pleurisy & Pneumonia.	4
1	3	7	1	..	..	1	..	..	2	..	14	61	61	Skin Disease.....	..
..	..	9	..	..	6	2	4	2	..	3	4	95	79	Dyspepsia .....	..
6	5	74	1	3	3	3	7	37	..	39	33	714	742	Accidents and diseases not classified.....	17
18	16	144	11	8	19	15	15	56	15	65	75	1336	1575	TOTAL.....	35

1 Typhus & 1 Typhoid.

2 Typhus.

indebted for the annexed Returns.

- (17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,
- (21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,
- (25) Mr. JOHN RAYNER,  
(26) „ J.V.L.WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tupples.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	1	..	..	..	..	..	..	..	2	7
Measles .....	1	..	..	3	1	..	1	..	1	2	..	9	8
Whooping-cough.....	2	..	..	..	..	2	..	..	..	1	..	5	11
Scarlatina .....	..	1	1	..	1	3	2	..	1	3	..	12	14
Diarrhoea .....	6	9	3	4	5	2	2	..	d2	3	2	38	44
Fever .....	2	..	2	..	1	..	b2	..	..	..	..	7	6
Diseases of the Lungs ..	4	7	5	3	..	4	..	..	4	5	4	36	39
Other causes.....	9	16	15	8	10	a8	c18	13	7	14	6	124	126
TOTAL NO. OF DEATHS.	24	33	27	19	18	19	25	13	15	28	12	233	255
TOTAL NO. OF BIRTHS.	35	32	17	21	12	22	23	15	24	58	23	282	274

a 1 Inquest.      b Typhus.      c 3 Inquests.      d Both Infants.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	..... Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	..... Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria .....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	..... Croup.....	6	3	1	10
595	543	1064	2202	..... Diarrhoea .....	150	121	138	409
4	1	5	10	..... Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	..... Erysipelas.....	23	22	38	83
27	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	.Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	..	..	..	..
39	31	19	89	..... Pneumonia .....	84	54	51	189
8	7	2	17	..... Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JUNE :				Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.		
	Inches.	Wet Days.									
Castleton Moor	3.713	.....	19								
Royton .....	3.450	.....	18								
Old Trafford..	2.945	.....	20								
Bowdon .....	.....	.....	..								
Eccles.....	.....	.....	..								
Height of barometer cistern above sea level.....				130 ft.	123 ft	NO RETURN.		NO RETURN.			
Barometer.				INS.	INS.						
Mean @ 32° F., and reduced to sea level.....				30.016	30.009						
Highest.....				30.136	30.139						
Lowest .....				29.750	29.749						
Range .....				0.386	0.390						
Temperature.				NO RETURN.							
Adopted Mean .....										60.0	60.5
Range for Week .....										22.8	27.3
Daily Range.....										15.3	20.4
Maximum in Shade .....										76.0	77.3
Minimum in Shade .....										53.2	50.0
Temperature of Dew Point .....										53.3	55.1
Hygrometrical condition of the Atmosphere.						GRS.	GRS.				
Degree of Humidity (Saturation—1,000).....						0.780	0.835				
Prevailing Winds .....						SE, SW 0.220					
Rain .....											
				SE, SW 0.330							
				SW, SSW 0							

July 23, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

[VOL. IV.]

WEEK ENDING SATURDAY, JULY 30, 1864.

[No. 209.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending July 30th 1,299 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions; in the preceding week there were 1,336, and in the corresponding one of last year 1,690.

Among the zymotic diseases Measles still continues to prevail,—20 cases occurred in the week; in the two preceding weeks the respective numbers were 22 and 19.

There were 13 seizures from Scarlet Fever, or 3 fewer than in the previous return; in the corresponding week of last year there were 46.

The Small-pox cases did not exceed 6.

Of 32 cases of Continued Fever only 1 is referred to as an example of Typhus.

The most striking feature in the present return is the increasing prevalence and severity of Diarrhœa and Dysentery. A fortnight ago the number of recorded cases amounted to 75, in the following week it rose to 113, and last week to 154. This total nearly exactly corresponded with that returned in the corresponding week of last year.

From Bronchitis and kindred affections of the chest, including Pleurisy and Pneumonia, the seizures did not exceed 102. In the last week of July, 1863, these disorders proved very much more prevalent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 212 deaths were registered in the eleven districts from which our returns are compiled; in the preceding week the number was 233, and in the corresponding one of last year 281. In the two weeks terminating on the 9th and 16th of July the number did not exceed 179. The increase is, to a considerable extent, due to Diarrhœa and Dysentery. From these disorders no fewer than 50 deaths are stated to have occurred. A fortnight ago the mortality under this column only amounted to 16.

In London, according to the last return of the Registrar General, the deaths exceeded the estimated average by about 300. Thus the state of the public health in the metropolis is not at present so satisfactory as that of Manchester. This unfavourable result is to be ascribed chiefly to the effects of the summer heat, the deaths from Diarrhœa having rapidly risen from 97 and 145 to 274; all except 21 occurred to infants. Two adults are said to have died of Cholera.

At Greenwich the mean temperature of the air in the week was 63·6°, or 1·4° above the average of the same week in forty-three years. At none of the Manchester stations was the mean reading of the thermometer above 59·5°. It is probably to the cooler state of the atmosphere in this neighbourhood, as compared with that of London, that we must attribute the more favourable death return.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....								Manchester Township 1,645 .....								
Population in 1861 .....								,, ,, 185,050 .....								
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
							Total of Districts.	ROYAL INFIRMARY.					CHILDREN.			
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's		Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	..	..	1	..	..	1	..	1	..	..	..	2	..	..	
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Measles .....	..	3	..	..	..	..	3	..	..	..	..	..	3	..	..	
Scarlatina .....	..	1	..	..	..	4	5	..	..	..	..	..	1	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	2	4	1	..	4	3	14	3	..	5	3	2	4	42	1	
Dysentery .....	..	..	..	..	..	2	2	..	..	1	1	..	1	2	..	
Continued Fever.....	1	1	*1	..	..	†4	7	10	..	1	1	1	1	2	..	
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism .....	..	1	..	..	1	..	2	8	2	16	2	..	5	2	1	
Neuralgic Affections.....	..	..	..	..	2	..	2	..	2	3	..	..	..	..	2	
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	7	2	..	..	..	..	
Phthisis .....	..	..	..	..	3	..	3	3	..	13	4	5	3	..	2	
Insanity .....	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh ..	..	4	5	2	5	3	19	7	1	14	..	1	3	2	3	
Pleurisy and Pneumonia.....	..	..	..	..	..	..	..	2	..	..	..	1	..	..	..	
Skin Diseases.....	..	..	..	..	1	..	1	20	..	11	1	..	1	4	12	
Dyspepsia .....	..	1	1	..	..	1	3	3	..	25	..	2	..	3	8	
Accidents and diseases not } classified..... }	23	5	6	2	2	14	52	52	28	226	9	5	4	42	3	
TOTAL .....	26	20	14	5	18	31	114	117	34	322	23	17	28	101	49	

\* Typhus.

† 2 Febricula.

Medical Officers to whom the Association are indebted for their assistance.

1 Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ JOHN ARMSTRONG,  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) }  
(10) } Mr. G. E. WALKER,  
(11) } „ ALFRED GODSON,  
(12) } „ W. H. SUTCLIFFE,

(13) Mr. H. RUP  
(14) Dr. WHITE  
(15) Mr. W. GOI  
(16) „ J. TEA



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 30th day of July, 1864

SALFORD.				HULME.			CHORLTON.		ARD-WICK	PENDLETON AND PENDLEBURY.					DEATHS.
.. 1,329 .....				.... 477.....			... 646...		508.	..... 2650.....			Area in Statute Acres.		
.. 70,967. ....				.. 68,209. ...			... 44,850..		21739	..... 24,448 .....			Population in 1861.		
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	..	1	..	..	..	..	..	..	..	..	..	6	19	Small-pox .....	1
..	1	..	..	..	..	..	..	..	..	..	..	2	..	Chicken-pox .....	..
..	..	..	..	..	1	..	..	4	2	2	4	20	10	Measles .....	1
1	..	1	..	..	..	..	..	..	1	1	1	13	46	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	2	..	..	3	18	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	1	..	..	1	3	Croup .....	..
1	..	12	5	5	1	4	2	8	3	5	3	144	150	Diarrhoea .....	5
..	..	1	..	..	..	..	1	..	..	..	..	10	13	Dysentery .....	..
..	1	..	..	..	..	..	..	..	2	3	3	32	27	Continued Fever ....	2
..	..	1	..	1	..	..	..	2	..	..	..	4	11	Erysipelas .....	..
1	..	2	..	1	..	..	1	1	2	..	4	50	65	Rheumatism .....	..
..	..	1	..	..	..	..	..	..	..	..	..	11	15	Neuralgic Affections ..	..
..	1	5	..	1	..	..	..	..	..	..	1	24	44	Constitutional Syphilis	..
..	..	9	..	..	..	..	1	..	1	3	2	49	62	Phthisis .....	6
..	4	..	..	..	..	..	..	..	..	..	3	10	4	Insanity .....	..
7	1	6	3	3	3	..	..	6	2	9	2	96	170	Bronchitis, Influenza, and Catarrh.....	2
2	..	1	..	..	..	..	..	..	..	..	..	6	18	Pleurisy & Pneumonia.	2
..	1	7	..	..	..	1	1	..	..	1	6	69	56	Skin Disease.....	..
..	..	7	1	1	..	2	3	2	..	4	4	69	86	Dyspepsia .....	..
5	4	86	2	5	10	4	9	34	..	44	48	680	873	Accidents and diseases not classified.....	19
17	13	140	11	17	15	11	18	57	16	72	81	1299	1690	TOTAL.....	38

ndeighted for the annexed Returns

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	51	..	1	8
Measles .....	..	..	..	..	..	..	1	..	1	..	..	2	7
Whooping-cough.....	1	..	..	..	..	..	..	..	..	1	..	2	15
Scarlatina .....	2	2	2	..	..	..	..	..	..	1	..	9	22
Diarrhœa .....	4	4	1	3	7	2	..	1	..	1	..	50	55
Fever .....	..	..	..	..	..	7	5	1	5	9	d4	3	5
Diseases of the Lungs ..	6	1	2	4	..	..	1	..	2	e1	e1	34	50
Other causes.....	13	7	10	7	14	a8	5	12	14	15	6	111	119
TOTAL NO. OF DEATHS.	26	14	15	14	21	25	15	13	22	36	11	212	281
TOTAL NO. OF BIRTHS.	43	35	15	18	8	31	6	18	21	50	24	269	344

a 1 Inquest.    b Male, aged 26 years.    c Typhoid.    d 1 Choleraic, aged 2 years.    e Typhus, aged 2 $\frac{3}{4}$  years.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	.....Chicken-pox.....	11	9	10	30
16	12	17	45	.....Measles.....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	.....Diphtheria.....	1	..	..	1
102	74	49	225	....Whooping-cough....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhœa.....	150	121	118	409
4	1	5	10	.....Dysentery.....	15	15	5	45
..	..	1	1	.....Cholera.....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	33	88
..	..	..	..	....Puerperal Fever....	..	..	..	..
27	25	24	76	.....Insanity.....	67	41	43	151
1169	724	622	2515	.Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	.....Pleurisy.....	84	54	51	189
39	31	19	89	.....Pneumonia.....	..	..	..	..
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	.....TOTAL.....	7633	5067	5391	18091

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JUNE : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Bowdon, L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	3.713	.....	19						
Royton .....	3.450	.....	18						
Old Trafford..	2.945	.....	20						
Bowdon .....	.....	.....	..						
Eccles.....	.....	.....	..						
Height of barometer cistern above sea level.....	130 ft.	123 ft.	127 ft.	522 ft.	475 ft.				
<b>Barometer.</b>				INS.	INS.	INS.	INS.		INS.
Mean @ 32° F., and reduced to sea level.....	29.868	29.882	29.886	29.879	29.867				29.867
Highest.....	30.000	30.008	30.088	29.592	29.630				29.630
Lowest .....	29.452	29.556	29.534	29.065	29.156				29.156
Range .....	0.548	0.532	0.534	0.527	0.474				0.474
<b>Temperature.</b>								NO RETURN.	
Adopted Mean .....	58.4	59.5	59.2	57.0	56.3				56.3
Range for Week .....	24.4	29.0	35.6	37.2	33.2				33.2
Daily Range.....	13.0	21.1	21.8	22.3	19.3				19.3
Maximum in Shade .....	71.1	78.0	75.7	76.0	72.3				72.3
Minimum in Shade .....	46.7	49.0	40.1	38.8	39.1				39.1
Temperature of Dew Point .....	49.9	52.1	49.7	50.8	48.2				48.2
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.	GRS.		GRS.
Degree of Humidity (Saturation—1,000).....	0.735	0.771	0.710	0.790	0.740				0.740
Prevailing Winds .....		S,SW	SW,NW	SW	SW,NW				SW,NW
Rain .....		0.209	0.242	0.205	0.206				0.206

July 30, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, AUGUST 6, 1864.

[No. 210.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 6th of August 1,335 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions. This number nearly exactly corresponds with that recorded a fortnight ago, when there were 1,336. In the corresponding week of last year the entry of cases proved very much more numerous, amounting to no fewer than 1,629.

During the last three weeks the amount of variation in respect to all the more important zymotic diseases has been singularly small. Though none of them have prevailed to any great extent, still all have been at hand doubtless ready, under favourable conditions, to be lighted up afresh.

Of 10 cases of Small-pox 6 occurred in Salford. Measles, on the other hand, is still chiefly confined to Chorlton.

There were 25 cases of Continued Fever, of which 2 are set down as Typhus and 1 as Typhoid Fever.

Diarrhoea and Dysentery, though still prevalent, have not advanced since our last return, the respective numbers being 154 and 151. These diseases still appear to fall with especial severity on the young, 33 cases having occurred at St. Mary's Hospital.

Under Bronchitis and kindred affections of the chest we observe a considerable rise, 25 more cases being entered than in our previous return.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the deaths registered in the eleven districts amounted to 224, or 12 more than in the preceding week. The increase is entirely due to Diarrhoea, no fewer than 65 deaths being recorded in the returns. Thus, although as we see by a reference to our disease columns the new cases were not unusually numerous, the disorder is nevertheless becoming very much more virulent; in other words, the proportion of deaths to seizures is becoming much greater. During the three last weeks the mortality from this cause has increased very rapidly, the respective numbers being 38, 50, and 65; cases of Diarrhoea, therefore, at the present time, ought not to be neglected.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 253. There, also, the increase is attributed to the Summer Diarrhoea, which carried off 286 persons, of whom 209 were infants less than a year old.

At Greenwich the mean temperature of the air in the week was 65°; the highest day temperature being 88·6°, and the lowest night 43·4°, exhibiting a range in the week of no less than 45·2°. At none of the stations in this neighbourhood was the mean temperature higher than 59·6°, nor did the maximum in the shade exceed 76·2°. Thus the London weather continues very much more trying than that of Manchester.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, FALL MALL, MANCHESTER.



MANCHESTER AND SAI

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....		Manchester Township 1,645 .....													
Population in 1861 .....		" " 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN.	
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	0	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	2	1	..	..	..	..	3	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	..	2	..	4	6	..	..	..	..	1	..	..	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	7	2	4	2	4	20	..	..	7	..	1	1	33	16
Dysentery .....	..	..	..	2	..	..	2	..	..	..	..	..	..	1	..
Continued Fever.....	*1	†1	1	..	..	..	3	12	..	..	..	§1	..	2	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Rheumatism .....	..	..	..	..	3	..	3	10	..	28	2	2	1	1	1
Neuralgic Affections .....	..	1	..	..	..	..	1	..	2	10	..	..	1	..	2
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	2	..	..	1	..	1
Phthisis .....	..	1	..	..	1	..	2	3	2	21	1	2	2	..	5
Insanity .....	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	1	2	1	5	7	17	7	..	27	..	1	4	2	2
Pleurisy and Pneumonia....	1	..	..	..	1	..	2	..	1	1	1	..	..	..	1
Skin Diseases.....	1	1	1	..	..	2	5	15	..	8	..	..	1	4	7
Dyspepsia .....	1	..	1	..	4	..	6	2	1	19	..	..	1	4	2
Accidents and diseases not classified.....	28	10	4	3	6	‡9	60	63	30	229	5	1	4	47	11
TOTAL .....	36	23	11	12	22	26	130	122	36	354	9	9	19	95	49

\* Typhoid.      † Typhus.      ‡ 1 English Cholera.      § Febricula.

1) Mr. R. M. MANN.      (5) Dr. JOHN MEDD,      (9) } Mr. G. E. WALKER,      (13) Mr. H. RUNO  
(2) „ J. BROADBENT,      (6) „ LEDWARD,      (10) } „ ALFRED GODSON,      (14) Dr. WHITEH  
(3) „ JOHN ARMSTRONG,      (7) Mr. A. PHILIPPS,      (11) } „ W. H. SUTCLIFFE,      (15) Mr. W. GOLD  
(4) Dr. BRADDON,      (8) Dr. GEORGE REED,      (12) }      (16) „ J. TEAL

Medical Officers to whom the Association



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 6th day of August, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
1,329 .....				477.....			646...		508.	2650.....				24,448 .....		
70,967. ....				68,209. ...			44,850..		21739							
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
17	18	19	20	21	22	23	24	25	26	27	28					
1	2	1	..	..	..	..	..	..	..	..	1	10	26	Small-pox .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	3	Chicken-pox .....	..	
..	..	..	..	..	..	..	2	4	2	2	1	14	8	Measles .....	2	
2	..	4	..	..	..	..	..	..	1	..	..	16	47	Scarlatina .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	1	..	..	2	12	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
1	..	22	7	..	3	4	4	6	6	3	2	142	201	Diarrhœa .....	8	
..	..	2	..	..	..	..	..	..	..	3	..	9	9	Dysentery .....	..	
..	†1	..	..	..	1	..	..	..	2	1	1	25	35	Continued Fever ....	1	
..	..	1	..	..	..	..	..	..	..	..	1	6	6	Erysipelas .....	..	
..	1	4	2	2	..	2	1	..	3	2	2	67	66	Rheumatism .....	..	
..	..	..	..	..	1	..	..	2	..	..	..	19	17	Neuralgic Affections ..	..	
..	..	3	..	..	..	..	..	1	..	..	1	16	43	Constitutional Syphilis	..	
..	1	7	..	..	..	..	1	2	1	2	1	53	66	Phthisis .....	5	
1	1	..	..	..	..	..	..	..	..	..	3	9	12	Insanity .....	..	
2	2	25	5	4	4	1	2	6	3	..	1	119	150	Bronchitis, Influenza, and Catarrh.....	2	
..	..	..	..	..	..	..	..	..	1	1	..	8	14	Pleurisy & Pneumonia.	..	
..	2	13	..	..	1	..	..	2	..	1	7	66	41	Skin Disease.....	..	
..	..	7	1	..	2	1	2	..	2	4	4	62	78	Dyspepsia .....	..	
7	9	69	..	6	8	1	8	30	2	45	50	692	794	Accidents and diseases not classified.....	21	
14	19	158	15	12	20	9	20	53	24	64	75	1335	1629	TOTAL.....	40	

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	1	..	..	..	1	..	..	..	3	4
Measles .....	1	..	..	..	1	2	2	..	1	..	..	7	8
Whooping-cough.....	1	..	..	..	..	..	..	..	..	..	..	1	5
Scarlatina .....	..	1	..	..	..	1	1	..	..	1	..	4	31
Diarrhoea .....	6	7	3	6	5	8	10	..	6	6	8	65	48
Fever .....	1	..	..	..	a1	1	..	..	d1	..	1	5	6
Diseases of the Lungs ..	9	6	2	7	..	6	2	..	7	6	1	46	31
Other causes.....	9	8	16	6	9	5	8	4	7	17	4	93	128
TOTAL NO. OF DEATHS.	27	22	22	20	16	23	23	5	22	30	14	224	261
TOTAL NO. OF BIRTHS.	41	31	13	22	10	37	9	12	37	57	22	291	314

a Gastric. b 9 under 1 year old. c All Infantile. d aged 35 years.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	..... Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	..... Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria.....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	..... Croup.....	6	3	31	10
595	543	1064	2202	..... Diarrhoea .....	150	121	18	409
4	1	5	10	..... Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	..... Erysipelas.....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	.. Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	199
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	..... Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JULY :				Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq	Royton, J. HEAP, Esq.	Penkereth, Warrington. L. W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
		Inches.	Wet Days.						
Eccles.....	2.280	.....	10						
Castleton Moor	2.182	.....	11						
Royton .....	2.035	.....	9						
Penkereth ....	1.789	.....	8						
Old Trafford..	1.687	.....	9						
Height of barometer cistern above sea level.....				130 ft.	123 ft	127ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.044	30.057	30.045	30.048	30.046	30.022
Highest .....				30.076	30.093	30.052	29.600	30.164	29.700
Lowest .....				29.924	29.816	29.772	29.307	29.890	29.366
Range .....				0.152	0.277	0.280	0.293	0.274	0.334
<b>Temperature.</b>									
Adopted Mean .....				58.0	59.0	58.6	57.3	59.6	56.1
Range for Week .....				23.5	28.2	28.1	29.8	25.2	25.6
Daily Range.....				13.9	16.5	16.2	18.1	13.4	18.1
Maximum in Shade .....				72.8	76.2	74.0	74.3	73.8	70.6
Minimum in Shade .....				49.3	48.0	45.9	44.5	48.6	45.0
Temperature of Dew Point .....				50.6	52.0	48.4	49.0	49.4	47.5
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.755	0.778	0.690	0.735	0.695	0.730
Prevailing Winds .....					S	W,SW	SW	SW,NW	SW,NW
Rain .....					0.562	0.746	0.775	0.527	0.735

August 10, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, AUGUST 13, 1864.

[No. 211.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 13th of August 1,416 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week there were 1,335, and in the corresponding one of last year 1,668.

Among the zymotic diseases we find 9 cases of Small-pox, 3 of which were admitted as in-patients of the Royal Infirmary, and 1 as a patient of the Workhouse.

The Scarlet Fever return has not improved since our last report, the respective numbers during the three last weeks being 13, 16, and 19.

Under Continued Fever we observe a remarkable increase. In the week ending August 6th there were 25 seizures from this disorder, last week the number rose to 47; and, what is the more alarming, is that no fewer than 9 of them are distinctly referred to as examples of Typhus; fortunately 6 of these 9 cases were admitted as in-patients of the Royal Infirmary. Thus, it may be hoped, that in these cases the spreading of the contagion among the friends of the patients may, to a great extent, be prevented. The 3 remaining cases are referred to by Mr. Holden as having been observed among the patients of the Ardwick and Ancoats Dispensary. Many weeks have elapsed since so many cases of true Typhus were recorded in our returns.

The cases of Diarrhœa and Dysentery were somewhat more prevalent than in the previous week, the respective numbers being 151 and 160.

The seizures from Bronchitis and kindred chest affections appear to be increasing; a fortnight ago they did not exceed 102, last week they rose to 136. This rise is probably due to the lower temperature of the night which has been observed of late.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 256 deaths were registered in the eleven districts. This return is very much less satisfactory than those which we have obtained of late. Those from Diarrhœa proved very numerous, amounting to no fewer than 72; in the two preceding weeks they amounted respectively to 50 and 65.

The mortality from Scarlet Fever, likewise, was much heavier than in any of our late returns, amounting to 16.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 65. Of 228 deaths from Diarrhœa which occurred there all, except 24, were among infants.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 61.2°; at Eccles, which last week proved the warmest of the Manchester stations, it was 55.7°.

In London half an inch of rain is stated to have fallen, in this neighbourhood about an inch.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, FALL MALL, MANCHESTER.



MANCHESTER AND SAI

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN.	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	1	..	..	1	1	3	..	..	..	1	..	
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	
Measles .....	..	1	..	..	..	..	1	..	..	..	..	..	2	..	
Scarlatina .....	..	..	2	3	..	2	7	..	..	..	1	1	1	2	
Diphtheria .....	..	..	1	..	..	..	1	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	1	3	3	3	6	3	19	..	..	10	..	..	4	21	
Dysentery .....	..	..	1	..	1	..	2	..	..	6	..	..	..	2	
Continued Fever.....	..	1	5	1	..	†1	8	10	‡6	..	3	2	3	5	
Erysipelas .....	..	..	..	..	..	..	..	..	1	1	..	..	..	..	
Rheumatism .....	3	3	3	1	2	..	12	14	1	8	..	..	2	..	
Neuralgic Affections .....	..	..	..	..	..	1	1	..	2	4	..	..	..	..	
Constitutional Syphilis .....	..	..	..	..	..	..	..	5	..	8	..	..	..	1	
Phthisis .....	..	..	5	..	1	1	7	5	..	13	2	2	4	1	
Insanity .....	1	1	*1	..	..	1	4	4	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	1	2	1	1	7	2	14	8	..	20	..	..	2	5	
Pleurisy and Pneumonia....	1	..	2	..	..	..	3	1	..	3	..	..	..	5	
Skin Diseases.....	..	..	2	2	3	..	7	11	..	10	..	..	..	5	
Dyspepsia .....	..	1	..	1	5	1	8	4	..	36	1	..	..	1	
Accidents and diseases not } classified..... }	20	8	22	5	..	4	59	76	27	224	6	5	5	43	
TOTAL .....	27	20	48	18	26	16	155	139	40	343	13	10	24	93	

\* Delirium Tremens.                      † Febricula.                      ‡ Typhus.

Medical Officers to whom the Asso

- |                       |                      |                           |               |
|-----------------------|----------------------|---------------------------|---------------|
| 1) Mr. R. M. MANN.    | (5) Dr. JOHN MEDD,   | (9) } Mr. G. E. WALKER,   | (13) Mr. H. I |
| (2) " J. BROADBENT,   | (6) " LEDWARD,       | (10) } " ALFRED GODSON,   | (14) Dr. WHI  |
| (3) " JOHN ARMSTRONG, | (7) Mr. A. PHILIPPS, | (11) } " W. H. SUTCLIFFE, | (15) Mr. W. T |
| (4) Dr. BRADDON,      | (8) Dr. GEORGE REED, | (12) }                    | (16) " J. T   |



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 13th day of August, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477 .....			646 .....		508 .....	2650 .....			Area in Statute Acres.		
70,967 .....				68,209 .....			44,850 .....		21739 .....	24,448 .....			Population in 1861.		
POOR LAW DISTRICT.	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	..	2	..	1	..	..	..	..	..	..	..	9	17	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	..	1	5	Chicken-pox .....	..
..	..	..	..	..	..	..	..	3	2	2	..	12	4	Measles .....	..
1	..	4	..	..	..	..	..	..	2	..	..	19	34	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	1	..	..	4	14	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	1	..	..	1	3	Croup .....	..
2	3	15	6	3	5	4	2	10	5	5	10	147	235	Diarrhoea .....	6
..	..	..	..	1	..	1	1	..	..	..	..	13	6	Dysentery .....	..
..	1	2	..	..	..	..	..	..	2	3	..	47	35	Continued Fever ....	1
..	..	1	..	..	1	..	..	1	..	..	1	6	9	Erysipelas .....	..
..	..	6	1	..	..	..	1	1	3	3	4	57	72	Rheumatism .....	..
..	..	..	..	..	..	..	..	..	..	..	1	11	8	Neuralgic Affections ..	..
1	2	4	1	..	..	..	..	2	..	..	..	26	35	Constitutional Syphilis	..
..	..	8	..	1	..	1	..	2	1	1	1	52	42	Phthisis .....	6
..	2	..	..	..	..	..	..	..	1	..	1	13	7	Insanity .....	..
4	4	..	27	5	1	..	3	4	4	6	..	121	150	Bronchitis, Influenza, and Catarrh .....	3
..	1	..	..	..	1	..	..	1	..	..	..	15	16	Pleurisy & Pneumonia.	..
..	7	10	1	..	..	1	..	2	..	..	7	67	62	Skin Disease .....	..
2	..	..	11	..	1	1	1	2	1	3	..	80	93	Dyspepsia .....	..
0	5	8	71	1	6	5	4	34	..	43	61	714	820	Accidents and diseases not classified .....	21
3	14	23	161	15	14	13	12	62	23	66	86	1416	1668	TOTAL .....	38

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
 (18) Mr. M. O. LARMUTH,  
 (19) „ J. O. BRADBURY,  
 (20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
 (22) Dr. ALEX. WILSON,  
 (23) Mr. H. M. WILLIAMSON  
 (24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
 (26) „ J. V. L. WESTMACOTT,  
 (27) „ JOHN HOLDEN,  
 (28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tashp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	e1	..	..	..	..	..	1	2
Measles.....	..	..	..	1	1	..	..	1	..	1	1	5	9
Whooping-cough.....	..	..	..	..	..	..	..	..	..	2	..	2	10
Scarlatina.....	5	2	..	..	1	4	1	..	1	2	..	16	28
Diarrhoea.....	14	6	3	7	7	12	9	2	3	8	1	72	67
Fever.....	..	1	2	..	1	1	a1	1	..	e1	..	8	8
Diseases of the Lungs ..	3	7	3	4	..	5	4	..	4	8	1	39	33
Other causes.....	13	13	10	7	b12	8	d13	7	8	16	6	113	109
TOTAL NO. OF DEATHS.	35	29	18	19	22	31	28	11	16	38	9	256	266
TOTAL NO. OF BIRTHS.	47	30	17	25	14	26	31	6	21	58	18	293	286

a Typhus.

b 1 English Cholera

c Vaccinated

d 2 Inquests.

e Gastric.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria .....	1	..	..	1
102	74	49	225	... Whooping-cough ...	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	... Puerperal Fever ...	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	.Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	..... Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JULY :						
	Inches.	Wet Days.				
Eccles.....	2.280	10	Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERRETH, Esq.	Royton, J. HEAP, Esq.
Castleton Moor	2.182	11				
Royton .....	2.035	9				
Penkereth ...	1.789	8				Penkereth, Warrington. L.W. Reynolds Esq
Old Trafford..	1.687	9				
Height of barometer cistern above sea level.....			130 ft.	123 ft	127 ft.	522 ft.
Barometer.			INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....			30.120	30.117	30.111	30.104
Highest.....			30.346	30.370	30.336	30.454
Lowest .....			29.768	29.732	29.728	29.826
Range .....			0.578	0.638	0.608	0.628
Temperature.						
Adopted Mean .....			54.2	55.5	55.7	54.6
Range for Week .....			24.1	33.7	36.7	39.9
Daily Range .....			13.3	18.7	18.2	20.7
Maximum in Shade .....			67.0	76.0	74.7	76.5
Minimum in Shade .....			42.9	39.3	38.0	36.6
Temperature of Dew Point .....			48.0	50.6	47.7	46.7
Hygrometrical condition of the Atmosphere			GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....			0.798	0.845	0.751	0.740
Prevailing Winds .....				S.SW	W.NW	SW,NW
Rain .....				0.959	0.901	1.237

NW.SW

WNW.SW

August 13, 1861.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

L. IV.]

WEEK ENDING SATURDAY, AUGUST 20, 1864.

[No. 212.]

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

Last week the number of new cases of disease that occurred in connection with the public Charitable Institutions and Poor Law Districts amounted to 1,401: in the preceding week there were 1,416, and in the corresponding one of last year 1,557.

On turning to the zymotic diseases we find a considerable increase under Measles, no fewer than 28 seizures being recorded. We find the disorder, moreover, more generally diffused over the town than it was a few weeks ago, when it chiefly prevailed in the township of Chorlton.

There were only 4 cases of Small-pox, or 5 fewer than in the previous week.

The Scarlet Fever cases (19) exactly corresponded with those recorded in our previous return.

Forty-seven persons experienced attacks of Continued Fever, of which no fewer than 7 are stated to have been true Typhus. During the last fortnight 16 persons suffered from this malignant and highly contagious disorder. Of the 9 cases observed last week 6 appear to be still laid up in their own homes, and are thus likely to prove so many centres of infection to their friends and neighbours. It should be borne in mind, likewise, that Typhus does not, like Scarlet Fever and Measles, confine its ravages to children but falls chiefly on adults,—cuts off the parent and support of the family rather than the offspring.

Under Diarrhœa we again find an increase of 24, and under Bronchitis a decrease of 5, cases.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

The deaths registered in the eleven districts amounted last week to 241; thus the present return is somewhat more favourable than that which preceded it when they amounted to 256. Of this number 62 are ascribed to Diarrhœa, a formidable total though somewhat more favourable than that of the preceding week.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 87; 242 were ascribed to Diarrhœa, all, except 31, being infantile; 13 cases were likewise returned as Cholera, 2 of them being spoken of as "Asiatic."

In Greenwich the mean temperature of the air was  $59.6^{\circ}$ ; at the Infirmary, which last week proved the warmest of the Manchester stations, it was  $56.8^{\circ}$ . In London the range of temperature in the week was  $35.8^{\circ}$ ; at Eccles and Royton  $43.4^{\circ}$  and  $43.3^{\circ}$  respectively.

North-Easterly winds very generally prevailed, and very little rain fell.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS

*New Cases of Disease coming under Treatment*

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN.		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles .....	1	5	..	..	..	..	6	..	1	..	..	1	1	2	..	
Scarlatina .....	..	..	2	..	..	4	6	..	..	..	..	2	2	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	1	..	1	..	2	..	..	..	..	..	..	4	1	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa.....	..	8	3	4	5	6	26	1	..	8	..	3	3	27	19	
Dysentery .....	..	..	..	1	1	..	2	..	..	1	..	1	..	..	..	
Continued Fever.....	1	*3	5	1	..	†1	11	9	‡3	..	*2	..	..	3	..	
Erysipelas .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	
Rheumatism .....	..	2	..	..	3	1	6	11	4	20	2	3	3	1	1	
Neuralgic Affections .....	..	1	..	..	..	..	1	..	3	8	..	..	1	..	4	
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	2	..	..	..	1	..	
Phthisis .....	..	..	1	..	2	..	3	4	..	16	..	5	3	3	..	
Insanity .....	..	..	..	1	..	..	1	3	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	1	5	1	2	4	..	13	8	5	35	..	3	3	2	6	
Pleurisy and Pneumonia.....	..	..	2	..	1	..	3	1	..	1	1	..	..	..	..	
Skin Diseases.....	..	4	1	..	..	..	5	13	..	11	2	..	..	1	3	
Dyspepsia .....	..	1	1	..	5	..	7	3	1	19	..	..	..	2	6	
Accidents and diseases not classified.....	27	11	23	4	6	12	83	60	29	212	5	5	3	64	12	
TOTAL .....	30	41	40	13	29	24	177	119	46	333	12	23	19	110	56	

\* Typhus.

† Febricula.

‡ 2 Typhus and 1 Typhoid.

*Medical Officers to whom the Association*

- (1) Mr. R. M. MANN.  
 (2) „ J. BROADBENT,  
 (3) „ EDWARD MEACHAM  
 (4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
 (6) „ LEDWARD,  
 (7) Mr. A. PHILIPPS,  
 (8) Dr. GEORGE REED,

- (9) } Mr. G. E. WALKER,  
 (10) } „ ALFRED GODSON,  
 (11) } „ W. H. SUTCLIFFE,  
 (12) }

- (13) Mr. H. RUI  
 (14) Dr. WHITE  
 (15) Mr. W. GOI  
 (16) „ J. TEA



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 20th day of August, 1864

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					DEATHS.
..... 1,329 .....					..... 477. ....			.. 646. ...		508.	..... 2650.....			Area in Statute Acres.		
..... 70,967. ....					.. 68,209. ...			.. 44,850 ..		21739	.....24,448 .....			Population in 1861.		
DOOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.	
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's									
6	17	18	19	20	21	22	23	24	25	26	27	28				
.	2	..	1	..	..	..	..	..	..	..	..	..	4	13	Small-pox .....	..
.	..	..	..	..	..	..	..	..	..	..	..	..	..	6	Chicken-pox .....	..
.	..	..	..	..	..	..	..	1	4	2	3	3	28	14	Measles .....	..
.	1	..	5	..	..	1	1	..	..	1	..	..	19	53	Scarlatina .....	2
.	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..
.	..	..	..	..	1	..	..	..	1	1	..	..	10	19	Whooping-cough ....	..
.	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..
4	1	2	17	9	5	2	9	..	13	6	8	11	177	210	Diarrhoea .....	8
.	..	..	2	..	..	..	..	1	..	..	..	..	7	6	Dysentery .....	..
.	1	3	3	..	1	..	..	2	..	3	1	3	47	29	Continued Fever ....	..
.	..	..	1	..	..	..	..	..	1	..	..	..	3	20	Erysipelas .....	..
1	..	..	6	2	..	1	2	..	1	3	4	3	74	62	Rheumatism .....	..
.	1	..	2	..	..	2	..	..	1	..	..	..	23	20	Neuralgic Affections ..	..
.	..	..	5	..	..	..	..	..	..	..	..	4	18	34	Constitutional Syphilis	..
1	..	..	7	..	..	..	..	1	..	1	2	..	46	49	Phthisis .....	6
.	..	..	..	..	..	..	..	..	..	..	..	9	13	4	Insanity .....	..
2	1	..	10	4	1	2	2	2	6	5	5	5	120	162	Bronchitis, Influenza, and Catarrh.....	..
.	1	..	..	..	..	..	..	..	..	..	1	3	11	10	Pleurisy & Pneumonia.	..
.	..	1	15	..	..	..	1	1	..	1	..	8	63	51	Skin Disease.....	..
.	..	1	9	1	..	1	..	1	1	3	5	4	68	82	Dyspepsia .....	..
e	2	3	52	2	3	6	2	4	38	..	35	34	670	711	Accidents and diseases not classified.....	22
	10	10	135	18	11	15	17	13	66	26	64	87	1401	1557	TOTAL.....	38

‡ 1 Typhoid.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
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(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipton.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	2	..	..	..	..	1	..	6	5
Measles.....	3	..	..	..	..	..	..	..	..	..	..	..	5
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	7	34
Scarlatina.....	..	4	..	..	..	2	..	2	1	10	4	64	86
Diarrhoea.....	13	7	2	6	7	4	..	2	d5	1	..	8	3
Fever.....	..	2	a2	..	a1	1	1	..	1	4	3	29	41
Diseases of the Lungs ..	6	6	..	2	..	7	c10	b7	b14	17	5	127	115
Other causes.....	11	8	28	11	9	b7	c10	b7	b14	17	5	241	294
<b>TOTAL NO. OF DEATHS.</b>	33	27	32	19	19	21	15	9	21	33	12	329	310
<b>TOTAL NO. OF BIRTHS.</b>	45	38	7	33	27	43	18	20	26	50	22	329	310

a Typhoid.

b 2 Inquests.

c 1 Inquest.

d All Infantile.

## Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	..... Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox.....	11	9	10	30
16	12	17	45	..... Measles.....	57	54	50	161
35	35	16	86	..... Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria.....	1	..	..	1
102	74	49	225	.... Whooping-cough....	71	29	27	127
6	5	3	14	..... Croup.....	6	3	31	10
595	543	1064	2202	..... Diarrhoea.....	150	121	18	409
4	1	5	10	..... Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera.....	..	..	..	..
23	9	18	50	..... Erysipelas.....	23	22	33	83
..	..	..	..	.... Puerperal Fever....	..	..	..	..
27	25	24	76	..... Insanity.....	67	41	43	151
1169	724	622	2515	.. Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy.....	84	54	51	189
39	31	19	89	..... Pneumonia.....	..	..	..	..
8	7	2	17	..... Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	..... TOTAL.....	7633	5067	5391	18091

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JULY :				Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penkereth, Warrington. L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches.	Wet Days.								
Eccles.....	2.280	.....	10						
Castleton Moor	2.182	.....	11						
Royton.....	2.035	.....	9						
Penkereth....	1.789	.....	8						
Old Trafford..	1.687	.....	9						
Height of barometer cistern above sea level.....				130 ft.	123 ft	127 ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.151	30.138	30.126	30.130	30.134	30.122
Highest.....				30.452	30.447	30.456	30.000	30.560	30.100
Lowest.....				29.690	29.696	29.680	29.225	29.794	29.290
Range.....				0.762	0.751	0.776	0.775	0.766	0.810
<b>Temperature.</b>									
Adopted Mean.....				56.8	55.2	56.2	55.6	55.8	55.4
Range for Week.....				32.6	39.8	43.4	43.3	41.5	39.4
Daily Range.....				19.0	22.5	20.3	19.1	25.9	20.1
Maximum in Shade.....				75.4	81.0	80.4	80.2	77.3	77.5
Minimum in Shade.....				42.8	41.2	37.0	36.9	35.8	38.1
Temperature of Dew Point.....				49.2	49.5	46.3	47.2	47.1	45.7
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.750	0.818	0.695	0.730	0.725	0.700
Prevailing Winds.....					E, NE	NW, NE	E, NE	E, NE	E, NE
Rain.....					0.006	0.000	0.065	0.000	0.065

August 20, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, AUGUST 27, 1864.

[No. 213.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 27th of August there were 1,403 new cases of disease in connection with the public Charitable Institutions and Poor Law Unions. During the last three weeks the variation in the number of cases has been very slight, the respective numbers being 1,416, 1,401, and 1,403. In the corresponding week of last year there were 1,475.

In respect to several of the zymotic diseases we find this week a decided improvement; thus, compared with last week, there were 3 instead of 4 cases of Small-pox; 12 instead of 28 cases of Measles; 16 instead of 19 cases of Scarlet Fever; and 2 instead of 10 cases of Whooping Cough. Under Diarrhœa, likewise, the decrease in the number of seizures is remarkable, amounting to no fewer than 61.

The least favourable feature in the present report is the continued prevalence of those two dreaded forms of Fever, Typhus and Typhoid. We have, for some weeks, directed attention to the alarming extent to which the former appears to be diffusing itself over the town. Last week there were 8 cases of true Typhus; 2 of them are reported by Mr. Mann as having occurred in the St. Peter's Poor Law District; 3 more were observed by Mr. Broadbent in the St. Andrew's District; and 1 by Dr. Braddon in the Cathedral District; and all wisely sent off to the Workhouse. Of the remaining 2 1 was an out-patient of the Royal Infirmary, the other a recipient of relief at the Salford Workhouse.

Under Bronchitis and kindred affections of the chest we observe an increase of 16 cases, doubtless as a consequence of the fall in the temperature of the air.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 241 deaths were registered in the eleven districts from which we receive our returns. This total exactly corresponds with that recorded last week, and is considerably more favourable than that reported in the last week of August 1863, when the deaths amounted to 314.

On turning to the causes of death we find the most decided increase under Scarlet Fever, no fewer than 21 persons being carried off by this disorder. In the previous week the fatal cases did not exceed 7.

The deaths from Diarrhœa, which in the two previous weeks amounted respectively to 72 and 64, fell last week to 49.

On the other hand, diseases connected with the chest appear to be once more on the increase, 37 instead of 29 deaths being attributed to this cause.

In London, according to the last report of the Registrar General, the deaths exceeded the average by 54. Diarrhœa there proved fatal in 190 cases, of which 168 were in children under two years of age.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 52.2°; in the warmest of the Manchester Stations it did not exceed 49.9°.

In London the rain measured amounted to 0.65 inch. In this neighbourhood only about half this quantity appears to have fallen.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	..	..	..	..	..	1	..	..	..	..	..	..	5	..
Scarlatina .....	1	..	..	..	2	..	3	..	..	..	..	1	1	..	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diarrhoea.....	1	6	3	2	3	2	17	1	..	5	..	..	..	29	19
Dysentery .....	1	..	1	1	..	..	3	..	..	4	..	1	1	1	..
Continued Fever.....	*3	†3	7	†1	..	..	14	6	..	..	‡2	..	1	3	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	2	..	1	1	..	..
Rheumatism .....	..	1	..	..	5	..	6	11	3	7	..	..	1	..	4
Neuralgic Affections .....	..	2	..	2	..	..	4	..	..	3	..	1	1	..	5
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	10	..	..	..	..	1
Phthisis .....	..	..	1	..	2	1	4	4	..	11	4	1	1	2	2
Insanity .....	..	..	1	..	..	..	1	3	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	..	4	7	3	4	2	20	8	1	25	..	4	..	5	3
Pleurisy and Pneumonia.....	..	1	..	..	..	..	1	1	1	..	..	1	3	..	1
Skin Diseases.....	..	1	..	1	3	..	5	15	..	8	..	..	..	7	3
Dyspepsia .....	..	..	1	1	1	..	3	3	..	40	1	4	..	..	6
Accidents and diseases not classified.....	24	5	12	5	5	10	61	62	37	266	4	..	8	43	12
TOTAL .....	31	23	33	16	25	15	143	120	42	381	11	14	19	97	57

\* 2 Typhus.      † Typhus, removed to Workhouse.      ‡ 1 Typhus and 1 Typhoid

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM

(4) Dr. BRADDON,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. A. PHILIPPS,

(8) Dr. GEORGE REED,
- (9) } Mr. G. E. WALKER,

(10) } „ ALFRED GODSON,

(11) } „ W. H. SUTCLIFFE,

(12) }
- (13) Mr. H. RU

(14) Dr. WHITE

(15) Mr. W. GO

(16) „ J. TEA



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 27th day of August, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					
1,329 .....				477. ....			646. ...		508.	2650.....			Area in Statute Acres.		
70,967. ....				68,209. ...			44,850..		21739	24,448 .....			Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	..	..	..	..	..	..	..	..	..	..	3	20	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox .....	..
..	..	..	..	..	..	..	1	2	2	..	..	12	7	Measles .....	..
3	..	..	..	1	..	1	1	..	2	2	..	16	63	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	1	..	..	2	17	Whooping-cough ....	..
..	..	..	..	..	..	..	..	1	..	..	..	2	..	Croup .....	..
..	1	11	5	..	4	3	..	5	4	..	5	112	122	Diarrhoea .....	3
1	..	..	..	..	..	..	..	..	..	..	..	11	10	Dysentery .....	2
..	§2	3	1	..	..	..	3	..	2	3	..	40	49	Continued Fever ....	..
..	2	2	..	..	1	..	..	..	..	..	..	10	4	Erysipelas .....	..
3	..	7	..	2	1	..	..	2	3	5	5	62	65	Rheumatism .....	1
1	..	..	..	..	..	..	..	..	..	1	2	18	16	Neuralgic Affections ..	2
2	2	4	..	..	..	..	..	1	..	1	6	33	26	Constitutional Syphilis	..
..	..	8	..	1	..	..	1	..	1	3	..	43	42	Phthisis .....	8
..	2	..	..	1	..	..	..	..	..	..	4	11	10	Insanity .....	1
12	..	15	4	1	..	1	3	10	5	7	4	133	134	Bronchitis, Influenza, and Catarrh.....	2
..	..	1	..	..	1	..	1	1	..	..	2	14	7	Pleurisy & Pneumonia.	..
3	1	6	1	..	..	1	1	1	1	1	7	62	41	Skin Disease.....	..
..	..	13	1	1	1	2	1	3	2	6	2	89	63	Dyspepsia .....	..
7	5	89	1	2	3	3	..	28	..	44	44	730	776	Accidents and diseases not classified.....	25
32	16	159	13	9	11	11	12	54	23	73	81	1403	1475	TOTAL.....	45

§ 1 Typhus.

|| Typhoid.

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	1	1	2	1	1	1	1	1	1	1	3	2
Measles .....	1	1	1	1	1	1	1	1	1	1	1	7	8
Whooping-cough.....	1	1	1	1	1	1	1	1	1	1	1	21	5
Scarlatina .....	7	2	2	1	2	4	2	1	1	1	2	49	33
Diarrhoea .....	12	8	3	8	3	5	3	1	1	4	2	7	80
Fever .....	1	1	4	1	1	1	1	1	1	1	2	37	3
Diseases of the Lungs ..	9	4	4	1	1	6	3	1	1	7	2	37	37
Other causes.....	14	14	14	9	12	6	12	11	8	14	3	117	146
TOTAL NO. OF DEATHS.	43	28	28	21	18	22	21	11	11	30	8	241	314
TOTAL NO. OF BIRTHS.	47	30	8	20	23	25	17	15	23	54	19	281	315

a 2 Typhus and 1 Scarlet. b 2 Croup and 2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	..... Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	..... Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria .....	1	1	1	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	..... Croup.....	6	3	31	10
595	543	1064	2202	..... Diarrhoea .....	150	121	18	409
4	1	5	10	..... Dysentery.....	15	15	15	45
23	9	18	50	..... Cholera .....	1	1	1	1
27	25	24	76	..... Erysipelas.....	23	22	38	83
1169	724	622	2515	.... Puerperal Fever ....	1	1	1	1
18	8	2	28	..... Insanity .....	67	41	43	151
39	31	19	89	..... Bronchitis and Catarrh..	1109	525	562	2196
8	7	2	17	..... Pleurisy .....	84	54	51	189
4914	3496	3709	12119	..... Pneumonia .....	1	1	1	1
6980	5006	5589	17575	..... Carbuncle.....	1	1	1	1
				{ Accidents, and all other Diseases. }	5380	4099	4347	14326
				..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JULY : Inches. Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penkereth, Warrington. L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Eccles.....	2.280	.....	10						
Castleton Moor	2.182	.....	11						
Royton .....	2.035	.....	9						
Penkereth ...	1.789	.....	8						
Old Trafford..	1.687	.....	9						
Height of barometer cistern above sea level.....				130 ft.	123 ft.	127 ft.	522 ft.	39 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.102	30.123	30.119	30.126	30.115	30.100
Highest.....				30.254	30.308	30.296	29.828	30.400	29.914
Lowest .....				29.826	29.822	29.816	29.353	29.920	29.450
Range .....				0.428	0.486	0.480	0.475	0.480	0.464
Temperature.									
Adopted Mean .....				48.5	48.1	49.9	49.2	49.9	48.9
Range for Week .....				20.7	36.0	36.7	34.4	39.2	32.3
Daily Range.....				16.4	25.0	24.5	25.2	23.3	20.3
Maximum in Shade .....				59.7	69.8	69.4	67.4	70.8	65.5
Minimum in Shade .....				39.0	33.3	32.7	33.0	31.6	33.2
Temperature of Dew Point ..				41.4	42.4	42.4	41.7	42.5	40.0
Hygrometrical condition of the Atmosphere				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.766	0.812	0.779	0.745	0.730	0.700
Prevailing Winds .....					E, NE	N, NE	E, NE	E, NE	E, NE
Rain .....					0.364	0.320	0.210	0.394	0.189

August 27, 1861.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, SEPTEMBER 3, 1864. [No. 214.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 3rd of September 1,277 new cases of disease were observed by the medical officers connected with the various public Charitable Institutions and Poor Law Unions : in the preceding week there were 1,403, and in the corresponding one of last year 1,692. Thus, for the season, the total may be considered satisfactory.

The most unfavourable feature connected with the present return is the increasing prevalence of Typhus Fever. For the last three or four weeks we have directed attention to this fact. In none of these reports, however, did the cases exceed 9 ; last week they rose to 15. Considering how contagious and malignant a disorder true Typhus is, and how prone to attack adults, those in fact on whom the family is dependant for their support, it is an alarming fact that the disorder is breaking out with all the virulence of an epidemic. Of the 15 cases 6 were admitted as in-patients of the Infirmary, 3 were observed by Mr. Broadbent, 1 by Dr. Braddon, and 1 by Mr. Teale, and all sent off to the Workhouses ; 3 of the remaining cases were patients of the Ardwick and Ancoats Dispensary, and 1 of the Chorlton Dispensary. The last 4 sufferers appear to be still at large—a source of danger to their friends.

With the exception of Typhus none of the other zymotic diseases occurred to any excessive extent. The seizures from Diarrhœa, which reached 184 a fortnight ago, fell last week to 90, and those from Bronchitis from 147 to 133.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the death return proved no less favourable than that relating to disease. The total number registered declined from 241 to 195 ; those from Scarlet Fever from 21 to 16 ; those from Diarrhœa from 49 to 35 ; and those from Diseases of the Lungs from 37 to 30.

In London, according to the last report of the Registrar General, the deaths exceeded the estimated number by 214. Thus the state of the public health in the metropolis is less favourable than in Manchester.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 60·3° ; at Old Trafford and Eccles it was 58·5° and 58·7° respectively.

In this neighbourhood the humidity of the air was remarkable, ranging from 839 at Old Trafford to 781 at Eccles (complete saturation being represented by 1011). In London only about  $\frac{1}{2}$  of an inch of rain is stated to have fallen ; at Royton, one of our stations, nearly  $2\frac{1}{2}$ , and at Old Trafford 1·8.

South-Westerly winds very generally prevailed.

JOHN ED. MORGAN. M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALE

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

	MANCHESTER.															
Area in Statute Acres .....	Manchester Township														1,645	.....
Population in 1861 .....	" "														185,050	.....
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	0	11	12	13	14	
Small-pox .....	1	..	..	..	..	..	1	..	2	..	..	..	..	..	..	
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles .....	1	2	..	..	..	1	4	..	..	..	..	..	..	2	1	
Scarlatina .....	..	..	..	..	1	2	3	..	..	..	..	1	..	1	2	
Diphtheria .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa.....	..	2	..	1	4	1	8	3	..	3	..	..	..	11	15	
Dysentery .....	..	..	1	..	..	..	1	1	..	1	..	1	..	..	..	
Continued Fever.....	2	*6	2	†1	1	..	12	13	‡9	..	..	..	..	7	..	
Erysipelas .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	
Rheumatism .....	..	..	1	..	..	1	2	3	3	5	1	2	1	3	4	
Neuralgic Affections .....	..	..	1	2	..	..	3	..	1	8	..	..	1	..	1	
Constitutional Syphilis .....	..	1	..	..	2	..	3	11	..	8	..	..	..	..	..	
Phthisis .....	..	1	1	..	1	2	5	4	..	20	..	..	3	..	2	
Insanity .....	1	..	..	..	..	..	1	2	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	2	2	5	2	5	4	20	15	1	15	1	2	..	4	5	
Pleurisy and Pneumonia....	..	1	..	..	..	1	2	..	1	1	..	..	2	..	1	
Skin Diseases.....	..	1	..	..	2	..	3	11	1	11	..	..	..	5	2	
Dyspepsia .....	..	..	..	..	5	2	7	7	1	40	..	4	..	..	4	
Accidents and diseases not classified.....	14	7	9	5	7	6	48	30	37	192	6	3	5	58	20	
TOTAL .....	21	24	20	11	29	20	125	100	56	304	8	13	12	93	57	

\* 3 Typhus, removed to Workhouse. † Typhus, removed to Workhouse. ‡ 6 Typhus, 2 Typhoid, and 1 Febrile

Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
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(9) } Mr. G. E. WALKER,  
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(12) }

(13) Mr. H. RU  
(14) Dr. WHITE  
(15) Mr. W. G  
(16) „ J. TE



# Sanitary Association.

Sanitary Association.

Sanitary Association.

Salford.				Hulme.			Chorlton.		Ardwick.	Pendleton and Pendlebury.					
1,329 .....				477 .....			646 .....		508.	2650 .....				Area in Statute Acres.	
70,967. ....				68,209. ....			44,850 .....		21739	24,448 .....				Population in 1861.	
District.	Public Institutions.			Poor Law Districts											
	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	Deaths.
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	..	..	..	1	..	..	..	1	..	..	6	17	Small-pox .....	..
..	1	..	..	..	..	..	..	..	..	..	..	1	1	Chicken-pox .....	..
..	..	..	..	..	..	..	1	1	2	2	2	15	10	Measles .....	2
..	1	2	..	..	..	..	..	1	1	1	..	13	53	Scarlatina .....	2
..	..	..	..	..	..	..	..	..	..	..	..	1	1	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	2	14	Whooping-cough ....	1
..	..	..	..	..	..	..	..	1	..	..	..	1	..	Croup .....	..
1	..	9	3	2	1	2	1	4	4	7	8	85	149	Diarrhœa .....	2
..	..	..	..	..	..	..	..	..	..	1	..	5	12	Dysentery .....	..
..	..	4	..	..	..	..	2	1	3	13	..	55	36	Continued Fever ....	1
..	..	1	..	..	..	..	..	..	..	..	..	2	8	Erysipelas .....	..
1	1	11	1	..	..	..	2	2	2	3	4	53	109	Rheumatism .....	..
..	..	..	..	..	1	..	..	1	..	..	..	16	17	Neuralgic Affections ..	..
..	2	5	..	..	..	..	..	2	..	1	7	39	31	Constitutional Syphilis	1
..	..	7	..	1	..	..	1	2	1	2	3	52	42	Phthisis .....	3
..	..	..	..	..	..	..	..	..	..	..	2	5	7	Insanity .....	2
4	..	18	4	2	4	2	2	5	3	5	4	122	152	Bronchitis, Influenza, and Catarrh .....	1
..	..	2	..	..	..	..	1	1	..	..	..	11	13	Pleurisy & Pneumonia.	1
..	1	9	..	..	1	..	1	3	..	..	5	55	49	Skin Disease .....	..
2	..	11	1	1	2	1	1	3	3	5	4	101	84	Dyspepsia .....	..
7	4	74	2	3	3	1	1	38	..	49	41	637	887	Accidents and diseases not classified .....	16
15	11	153	11	9	13	6	13	65	20	79	80	1277	1692	TOTAL .....	32

(17) Dr. SAMUEL BOOTH,  
 (18) Mr. M. O. LARMUTH,  
 (19) " J. O. BRADBURY,  
 (20) " W. B. STOTT,  
 (21) Mr. JOHN SMITH,  
 (22) Dr. ALEX. WILSON,  
 (23) Mr. H. M. WILLIAMSON  
 (24) " JOSEPH FOSTER,  
 (25) Mr. JOHN RAYNER,  
 (26) " J. V. L. WESTMACOTT,  
 (27) " JOHN HOLDEN,  
 (28) " J. WATSON.

Indebted for the annexed Returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Choriton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	1	1	..	1	a1	..	..	..	2	5
Measles .....	3	..	..	1	1	..	..	..	..	..	..	5	3
Whooping-cough.....	..	..	..	..	2	1	..	..	..	1	..	2	4
Scarlatina .....	2	2	1	..	2	3	5	..	..	..	1	16	30
Diarrhoea .....	6	4	..	2	8	6	2	..	..	5	2	35	53
Fever .....	..	1	3	a1	a1	..	1	..	..	..	e1	8	3
Diseases of the Lungs ..	6	2	2	4	..	5	3	..	1	5	2	30	31
Other causes.....	10	9	15	9	11	b4	c10	6	b11	8	4	97	109
TOTAL NO. OF DEATHS.	27	18	21	17	23	19	22	7	12	19	10	195	238
TOTAL NO. OF BIRTHS.	36	30	15	23	13	26	37	24	20	54	16	294	263

a Typhus. b 1 Inquest. c 2 Inquests. d Aged 11 months; not vaccinated. e Typhoid.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria.....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	.Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	..... Carbuncle .....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases.	5380	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN AUGUST :			Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERETH Esq.	Royton, J. HEAP, Esq.	Fenkereth, Warrington. L.W.Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.						
Royton .....	2.832	13						
Eccles.....	2.462	15						
Old Trafford..	2.367	15						
Penkereth	1.914	11						
Castleton Moor								
Height of barometer cistern above sea level.....			130 ft.	123 ft	127 ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F., and reduced to sea level.....			29.814	29.823	29.827	29.813	29.818	
Highest.....			29.926	29.946	29.932	29.485	30.041	
Lowest .....			29.612	29.583	29.592	29.139	29.690	
Range .....			0.314	0.363	0.340	0.316	0.351	
<b>Temperature.</b>								
Adopted Mean .....			57.4	58.5	58.7	57.6	59.2	
Range for Week .....			25.5	33.7	33.4	31.9	33.6	
Daily Range.....			13.7	19.3	15.8	15.3	16.0	
Maximum in Shade .....			71.9	78.7	78.5	76.4	80.0	
Minimum in Shade .....			46.4	45.0	45.1	44.5	46.4	
Temperature of Dew Point .....			51.9	53.6	51.8	52.1	52.9	
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.	GRS.	GRS.	GRS.	
Degree of Humidity (Saturation—1,000).....			0.815	0.839	0.781	0.815	0.790	
Prevailing Winds .....				S	SW	SW	SW	
Rain .....				1.830	2.271	2.440	2.074	

September 3, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, SEPTEMBER 10, 1864. [No. 215.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 10th of September 1,253 new cases of disease were seen in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week there were 1,277, and in the corresponding one of last year 1,571.

In our last report we drew attention to the extent to which Typhus Fever is disseminating itself over the town. Unfortunately the disease is still raging. In our present return 13 new attacks are distinctly specified; of this number 2 were admitted as in-patients of the Royal Infirmary, and 2 more into the Workhouse at Salford. The remaining cases were seen in the St. Andrew's, Cathedral, and St. Michael's Districts in Manchester; in the Regent Road District in Salford; in the Ardwick Poor Law District, and in the Ardwick and Ancoats Dispensary.

There were 22 cases of Scarlet Fever, 9 more than in the preceding week, and 19 cases of Measles.

As the season advances Diarrhoea and Dysentery continue to decrease; last week the seizures did not exceed 68, three weeks ago they amounted to 184. On the other hand, Bronchitis and kindred affections of the chest appear to be increasing, inasmuch as they rose last week from 133 to 147.

No other disease occurred to any unusual extent.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Our death return this week may be deemed decidedly favourable for the season. The deaths registered in the eleven districts did not exceed 173. A fortnight ago they amounted to 241, the following week they fell to 195, and in this return to the still more favourable total of 173. This is, to some extent, owing to the diminished intensity, no less than prevalence of Diarrhoea, the deaths from this cause not exceeding 17; in the preceding week there were 35.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 140. Thus the health of Manchester still continues considerably more favourable than that of the metropolis.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was  $61.1^{\circ}$ ; at Old Trafford and Eccles it was  $58.1^{\circ}$  and  $57.8^{\circ}$  respectively.

In Greenwich not more than a quarter of an inch of rain was measured; in this neighbourhood about an inch.

South-Westerly winds very generally prevailed.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.

N.B. The case of Typhus Fever which occurred at the Chorlton Dispensary last week was removed to the Infirmary.



MANCHESTER AND SA...

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								,, ,, 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN.	
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical School.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	1	..	..	..	..	2	..	..	..	..	..	1	2	1
Scarlatina .....	..	..	..	..	1	..	1	..	..	..	3	6	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	..	..	..	2	..	3	..	..	1	..	..	..	16	14
Dysentery .....	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..
Continued Fever.....	1	*1	2	*2	2	+2	10	2	†5	..	§1	1	..	6	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism .....	11	1	..	..	1	1	14	10	2	9	..	2	1	1	..
Neuralgic Affections .....	..	..	1	..	..	..	1	..	4	..	..	..	1	..	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	1	7	..	1	..	1	2
Phthisis .....	..	..	..	1	..	..	1	3	..	15	1	2	..	..	4
Insanity .....	..	1	..	..	..	..	1	5	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh ..	..	1	4	..	12	6	23	15	..	23	1	1	2	3	6
Pleurisy and Pneumonia.....	1	..	..	..	2	..	3	..	..	1	..	..	1	..	1
Skin Diseases.....	..	2	..	..	..	..	2	7	1	7	1	..	..	9	3
Dyspepsia .....	..	..	..	..	1	1	2	..	..	18	3	1	3	2	3
Accidents and diseases not } classified..... }	13	5	19	7	8	6	58	60	36	207	7	6	6	58	17
TOTAL .....	28	12	26	10	29	16	121	109	49	288	17	20	15	100	57

\* Typhus, removed to Workhouse. † Typhus, 1 case removed to Workhouse.

Medical Officers to whom the Associa

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) }  
(10) } Mr. G. E. WALKER,  
(11) } „ ALFRED GODSON,  
(12) } „ W. H. SUTCLIFFE,

(13) Mr. H. RU  
(14) Dr. WHITE  
(15) Mr. W. G  
(16) „ J. TEL



# SANITARY ASSOCIATION.

REPORTS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 10th day of September, 1864

SALFORD.				HULME.			CHORLTON.		ARD-WICK.	PENDLETON AND PENDLEBURY.						DEATHS.
... 1,329 .....				... 477. ....			... 646. ...		508.	... 2650.....				Area in Statute Acres.		
... 70,967. ....				... 68,209. ...			... 44,850 ..		21739	.....24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23	24	25	26	27	28					
13	..	1	..	..	..	..	..	..	1	..	..	5	10	Small-pox .....	..	
..	..	1	..	..	..	..	..	..	..	..	..	1	..	Chicken-pox .....	..	
..	..	..	..	1	..	..	..	5	4	2	1	19	7	Measles .....	..	
..	..	2	..	..	..	2	..	1	2	2	..	22	53	Scarlatina .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	1	..	..	..	..	..	..	..	2	20	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	1	5	2	1	1	3	..	4	2	5	4	65	123	Diarrhoea .....	2	
..	..	..	..	..	..	..	..	1	..	..	..	3	11	Dysentery .....	1	
†2	†3	3	3	1	2	..	..	..	†3	†2	1	45	46	Continued Fever ....	3	
..	..	1	..	..	1	..	..	1	..	..	..	3	20	Erysipelas .....	..	
..	..	4	2	1	..	2	1	..	..	2	..	52	105	Rheumatism .....	..	
..	..	..	..	..	1	..	..	1	..	..	1	10	19	Neuralgic Affections ..	..	
..	..	..	..	..	..	..	..	1	1	..	2	22	40	Constitutional Syphilis	..	
2	..	5	..	..	..	..	..	1	2	2	2	40	58	Phthisis .....	6	
..	1	..	..	..	..	..	..	..	..	..	4	11	11	Insanity .....	..	
2	..	22	6	2	3	..	2	8	3	4	4	135	190	Bronchitis, Influenza, and Catarrh.....	3	
..	..	4	..	..	..	1	..	..	..	..	1	12	11	Pleurisy & Pneumonia.	..	
1	5	5	..	..	2	1	..	..	..	..	15	60	59	Skin Disease.....	..	
..	..	6	1	..	2	1	1	2	2	3	2	55	84	Dyspepsia .....	..	
6	8	80	1	5	4	1	3	35	4	34	46	691	703	Accidents and diseases not classified.....	25	
16	18	139	15	12	16	11	7	60	24	56	83	1253	1571	TOTAL.....	42	

2 Typhus, 2 Typhoid, and 1 Febricula.

3 Febricula

|| All Unvaccinated.

† 2 Typhus.

Indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	2	..	1	..	..	1	cl	..	1	6
Measles .....	..	..	..	2	1	1	..	..	..	1	..	4	5
Whooping-cough .....	..	..	..	..	1	3	2	..	1	5	2	2	7
Scarlatina .....	1	..	3	..	1	..	..	..	1	..	1	18	38
Diarrhoea .....	3	4	2	4	1	1	..	..	1	..	1	17	55
Fever .....	..	3	al	al	..	1	..	..	al	3	..	10	4
Diseases of the Lungs ..	4	5	5	3	1	5	2	..	2	8	2	37	31
Other causes .....	14	4	15	6	66	6	610	68	3	8	4	84	118
TOTAL NO. OF DEATHS.	22	16	26	16	10	17	14	8	9	26	9	173	264
TOTAL NO. OF BIRTHS.	35	39	20	20	17	28	26	14	20	55	15	289	270

a Typhus.                      b 1 Inquest.                      c Male, aged 26 years.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

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3	6	1	10	..... Diphtheria .....	1	..	..	1
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27	25	24	76	.... Puerperal Fever ....	..	..	..	..
1169	724	622	2515	..... Insanity .....	67	41	43	151
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8	7	2	17	..... Pneumonia .....	..	..	..	..
4914	3496	3709	12119	..... Carbuncle .....	..	..	..	..
				{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

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Inches.		Wet Days.							
Royton .....	2.832	.....	13						
Eccles.....	2.462	.....	15						
Old Trafford..	2.367	.....	15						
Penkereth ...	1.914	.....	11						
Castleton Moor	.....	.....							
Height of barometer cistern above sea level.....				130 ft.	123 ft	127 ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.841	29.861	29.857	29.849	29.860	29.826
Highest.....				29.918	29.914	29.960	29.470	30.112	29.530
Lowest .....				29.634	29.615	29.626	29.140	29.718	29.246
Range .....				0.284	0.329	0.334	0.330	0.394	0.284
<b>Temperature.</b>									
Adopted Mean .....				56.7	53.1	57.8	56.5	58.6	55.4
Range for Week .....				20.2	23.5	24.3	25.8	23.8	22.8
Daily Range.....				13.2	15.9	14.8	16.5	12.9	13.4
Maximum in Shade .....				68.2	70.0	71.2	70.4	70.8	67.8
Minimum in Shade .....				48.0	46.5	46.9	44.6	47.0	45.0
Temperature of Dew Point .....				48.4	50.7	48.7	48.6	49.7	47.0
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.735	0.765	0.710	0.745	0.725	0.740
Prevailing Winds .....					S,SW	W,SW	SW	SW, W	SW, W
Rain .....					1.016	1.030	1.110	0.929	1.264

September 10, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, SEPTEMBER 17, 1864. [No. 216.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 17th of September there were 1,327 new cases of disease in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week there were 1,253, and in the corresponding one of last year 1,540.

The seizures from Small-pox amounted to 6. Mr. Williamson remarks, in regard to 1 of these cases, which terminated fatally, that the subject had never been vaccinated.

Scarlet Fever is once more on the increase. A fortnight ago there were only 13 cases, in the following week there were 22, and last week 41.

It is satisfactory to observe that only 5 of the 65 cases of Continued Fever reported in our present return are referred to as examples of Typhus. In reference to 1 of these, which occurred in the St. Michael's District, Dr. Ledward remarks that the patient was ordered to be removed to the hospital, but that the friends refused to sanction the removal: death occurred two days later.

Under Bronchitis and kindred affections connected with the respiratory organs we find 141 cases, in the corresponding week of last year there were 223.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 199 deaths were registered in the eleven districts from which we obtain our returns: in the preceding week there were still fewer, or 173. Both returns, however, may be deemed satisfactory, and show that the public health continues favourable.

The births proved very numerous, 336 children having been registered in the week.

Of the deaths 19 are ascribed to Scarlet Fever. In the previous week this disorder carried off 18.

Diarrhoea proved fatal in 27 cases, 10 more than in our former return.

Under Continued Fever, as might be anticipated from the attention which we have lately drawn to the prevalence of Typhus, we find an increase; thus the number of deaths for the three last weeks amounted respectively to 8, 10, and 12.

The warmest station from which we receive meteorological returns was Penketh, where the mean reading of the thermometer in the shade was  $53.1^{\circ}$ . Next follow Old Trafford and Eccles, with a mean temperature of  $53.0^{\circ}$  and  $52.8^{\circ}$  respectively. At the Royal Infirmary the thermometer never fell below  $43.7^{\circ}$ , whereas at Royton it was as low as  $35.4^{\circ}$ .

The air proved driest at Eccles, where the degree of humidity was represented by 760, complete saturation being represented by 1000; at Old Trafford it was 830.

About an inch of rain fell in the week.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SAL

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	1	..	..	..	..	1	..	..	..	..	..	..	2	..
Scarlatina .....	..	..	5	..	3	2	10	1	..	..	1	6	2	..	..
Diphtheria .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	4	..	..	4	1	9	..	..	3	..	..	1	8	14
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Continued Fever.....	1	2	3	2	1	*2	11	23	+5	..	4	1	..	8	1
Erysipelas .....	1	..	..	..	..	1	2	..	..	..	..	..	..	..	..
Rheumatism .....	2	..	1	..	2	..	5	9	1	12	..	5	2	..	1
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	7	..	..	..	..	4
Constitutional Syphilis .....	..	..	..	..	..	1	1	7	..	11	..	..	..	2	2
Phthisis .....	..	2	1	..	1	..	4	5	2	22	1	1	1	..	4
Insanity .....	..	..	1	..	..	..	1	3	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	2	4	3	..	2	2	13	12	..	18	1	..	..	2	7
Pleurisy and Pneumonia....	..	1	..	..	1	..	2	2	..	2	..	1	5	1	1
Skin Diseases.....	..	..	..	..	..	..	..	11	..	5	..	..	..	2	6
Dyspepsia .....	..	1	1	..	5	1	8	..	2	29	1	..	..	4	4
Accidents and diseases not classified.....	23	13	17	5	8	10	76	55	31	191	2	2	9	57	20
TOTAL .....	29	28	32	7	28	21	145	129	41	300	10	16	20	87	65

\* Typhus, 1 case ordered to Hospital but not sent, died in two days after.

Medical Officers to whom the Associates

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM

(4) Dr. BRADDON,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. A. PHILIPPS,

(8) Dr. GEORGE REED,
- (9) } „ W.H. SUTCLIFFE,

(10) } „ WILLIAM G. ROGERS,

(11) } „ THOMAS LEEDS,

(12) }
- (13) Mr. H. RUN

(14) Dr. WHITE

(15) Mr. W. GOL

(16) „ J. TEAL



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 17th day of September, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
... 1,329 .....				.... 477. ....			... 646. ...		508.	..... 2650.....				Area in Statute Acres.		
... 70,967. ....				.. 68,209. ...			.. 44,850 ..		21739	..... 24,448 .....				Population in 1861.		
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											DISEASES.	
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
17	18	19	20	21	22	23	24	25	26	27	28					
1	2	..	..		..	§1	..	..	1	..	..	6	14	Small-pox .....	1	
..	..	1	..	..	..	..	..	..	..	..	..	1	3	Chicken-pox .....	..	
..	..	..	..	..	..	..	1	4	2	1	5	16	12	Measles .....	2	
5	..	5	..	..	3	3	..	1	1	2	..	41	69	Scarlatina .....	3	
..	..	..	.	..	..	..	..	..	..	..	..	1	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	1	..	..	3	18	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	1	..	1	1	Croup .....	..	
..	..	7	3	..	1	..	2	2	3	4	8	68	101	Diarrhœa .....	2	
..	..	..	..	..	..	1	..	..	..	..	2	4	7	Dysentery .....	2	
..	‡1	4	..	..	1	..	..	..	3	..	3	65	45	Continued Fever ....	4	
..	..	..	..	..	..	..	1	..	..	1	2	6	9	Erysipelas .....	..	
..	..	5	2	1	1	..	..	2	2	2	2	53	47	Rheumatism .....	..	
..	..	..	..	..	..	..	..	..	1	..	2	14	22	Neuralgic Affections ..	1	
2	..	2	..	2	..	..	..	..	1	1	3	34	27	Constitutional Syphilis	1	
..	..	8	..	..	..	..	..	..	1	4	2	55	51	Phthisis .....	3	
..	4	..	..	..	..	..	..	..	..	..	3	13	2	Insanity .....	2	
3	1	26	5	1	2	2	3	5	2	7	6	118	196	Bronchitis, Influenza, and Catarrh.....	2	
..	..	2	..	..	..	..	..	2	1	1	2	23	17	Pleurisy & Pneumonia.	2	
..	4	9	..	2	1	1	..	..	..	..	10	51	76	Skin Disease.....	..	
..	..	13	2	..	2	..	..	1	4	4	2	77	79	Dyspepsia .....	..	
4	4	56	2	6	4	4	5	28	3	46	62	677	744	Accidents and diseases not classified.....	20	
15	16	138	14	12	15	12	12	43	26	74	114	1327	1540	TOTAL.....	45	

‡ 2 Typhus, 2 Typhoid, and 1 Febricula.

‡ Typhus.

‡ Not vaccinated, since dead.

Indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	e1	2	..	3	2
Measles .....	2	..	1	1	1	..	..	..	..	..	..	5	4
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	..	6
Scarlatina .....	2	2	..	1	3	3	2	..	2	1	3	19	30
Diarrhœa .....	4	3	..	6	4	1	1	..	2	6	..	27	25
Fever .....	1	3	a2	b2	..	..	..	d1	1	1	f1	12	5
Diseases of the Lungs ..	6	6	..	1	..	8	..	..	3	9	3	36	38
Other causes.....	11	11	11	6	6	e6	ci3	8	3	13	9	97	114
TOTAL NO. OF DEATHS.	26	25	14	17	14	18	16	9	12	32	16	199	224
TOTAL NO. OF BIRTHS.	47	39	16	12	9	27	43	24	30	62	27	336	309

a Typhus.    b 1 Gastric and 1 Typhoid.    c 1 Inquest.    d 1 Gastric.    e Aged 25, doubtful whether Vaccinated.  
f Typhoid, aged 56 years.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	..... Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	..... Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria.....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	..... Croup.....	6	3	31	10
595	543	1064	2202	..... Diarrhœa .....	150	121	18	409
4	1	5	10	..... Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	13	50	..... Erysipelas.....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	.. Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	..... Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN AUGUST : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERRETH Esq	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. REYNOLDS Esq	Castleton Moor, Rev. J. C. BATES.
Royton .....	2.832	.....	13						
Eccles.....	2.462	.....	15						
Old Trafford..	2.367	.....	15						
Penketh ..	1.914	.....	11						
Castleton Moor	.....	.....	.....						
Height of barometer cistern above sea level.....	130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.			
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.627	29.621	29.614	29.618	29.608	29.608			
Highest.....	29.952	29.934	29.946	29.495	30.040	29.562			
Lowest.....	29.168	29.172	29.166	28.711	29.265	28.842			
Range .....	0.784	0.762	0.780	0.784	0.775	0.720			
Temperature.									
Adopted Mean .....	51.8	53.0	52.8	51.6	53.1	51.2			
Range for Week .....	19.5	26.8	23.7	28.6	23.0	24.1			
Daily Range.....	13.3	18.0	15.3	16.7	13.9	13.0			
Maximum in Shade .....	63.2	68.0	63.3	64.0	64.5	62.0			
Minimum in Shade .....	43.7	41.2	39.6	35.4	41.5	37.9			
Temperature of Dew Point .....	45.6	48.0	45.2	45.5	46.8	46.1			
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.794	0.830	0.760	0.800	0.800	0.830			
Prevailing Winds .....	.....	S	S,SW	S,SW	W,SW	SSW,NW			
Rain .....	.....	1.043	0.857	0.915	1.335	1.104			

September 17, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, SEPTEMBER 24, 1864. [No. 217.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 24th of September 1,318 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week there were 1,327, and in the corresponding one of last year 1,510.

Out of 7 cases of Small-pox 6 are reported by Mr. John Smith as having come under his observation in the St. George's District, Hulme.

There were 21 cases of Measles, of which 10 were among the patients of the Chorlton Dispensary. It is thus evident that the disorder still prevails in this quarter of the town.

Under Scarlet Fever we find a decided improvement, the seizures not exceeding 17; in the previous return there were 41.

There were 49 cases of Continued Fever, of which 9 proved examples of Typhus. The latter were met with in various quarters of the town; 1 in the St. Peter's District, which was removed to the hospital; 2 more in St. Andrew's; 2 in St. Michael's; 2 at the Royal Infirmary; 1 at St. George's, Hulme; and 1 in the Ardwick Poor Law District.

Under Bronchitis and kindred affections of the chest we find an improvement over the preceding week, the respective numbers being 141 and 128.

No other disease occurred to any unusual extent.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 211 deaths were registered in the eleven districts from which we receive our returns: in the preceding week there were 199, and in the corresponding one of last year 241.

Twenty-one of the deaths are ascribed to Scarlet Fever. The Registrar of Ardwick remarks, in regard to one of these which occurred in Ardwick, that it is the fourth death from this cause met with in the same house.

In London, according to the last return of the Registrar General, the deaths of 1,229 persons were registered; this number is slightly above the average rate of mortality.

Among the deaths which occurred in the metropolis we find that the zymotic diseases contributed 389, and that eleven persons were killed by vehicles in the streets; one lady died at the age of 105.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 56·0°, at Eccles and Old Trafford it was 53·7° and 53·5° respectively.

The quantity of rain measured in the neighbourhood of London was about an inch; at the stations from which we obtain our returns it varied between 1·01 inch at Old Trafford, and 0·64 of an inch at Penketh.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..
Scarlatina .....	..	1	..	..	2	3	6	..	..	..	2	2	..	..	1
Diphtheria .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	3	..	4	..	..	6	1	..	..	19	13
Dysentery .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	*2	†3	‡5	1	1	†2	14	9	§3	..	2	..	..	7	..
Erysipelas .....	..	..	..	1	..	..	1	..	..	..	1	1	..	..	..
Rheumatism .....	4	2	..	1	4	1	12	11	3	21	3	..	2	..	2
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	5	..	1	..	..	2
Constitutional Syphilis .....	..	..	..	..	1	..	1	9	..	12	..	..	..	1	2
Phthisis .....	..	2	..	..	2	..	4	4	..	25	2	1	1	..	4
Insanity .....	1	1	..	2	..	..	4	8	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	4	2	4	..	6	2	18	11	2	17	4	3	1	2	13
Pleurisy and Pneumonia.....	..	..	..	..	..	..	..	2	..	2	..	2	1	..	2
Skin Diseases.....	..	1	1	..	..	..	2	13	..	9	..	..	..	7	7
Dyspepsia .....	..	..	..	..	5	..	5	..	..	18	2	..	1	2	7
Accidents and diseases not } classified.....	21	7	8	3	9	8	56	66	29	223	..	4	3	54	17
TOTAL.....	32	20	18	8	35	16	129	134	38	338	17	15	9	95	70

\* 1 Typhus, removed to Hospital.    † 2 Typhus.    ‡ 1 Febricula.

Medical Officers to whom the Associates

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM  
(4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

- (9) }  
(10) } „ W. H. SUTCLIFFE,  
(11) } „ WILLIAM G. ROGERS,  
(12) } „ THOMAS LEEDS,

- (13) Mr. H. RUN  
(14) Dr. WHITE  
(15) Mr. W. GOL  
(16) „ J. TEAL



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 24th day of September, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.	
.. 1,329 .....				.... 477. ....			.. 646. ...		508.	..... 2650. ....				Area in Statute Acres.			
.. 70,967. ....				.. 68,209. ...			.. 44,850. ..		21739	..... 24,448. ....				Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS													
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.			
17	18	19	20	21	22	23	24	25	26	27	28						
..	..	..	..	6	..	..	..	..	..	..	..	7	13	Small-pox .....	1		
..	..	..	..	..	..	..	1	..	..	..	..	1	2	Chicken-pox .....	..		
..	..	1	..	..	..	..	..	10	1	1	4	21	8	Measles .....	..		
..	..	3	..	1	1	..	..	..	1	..	..	17	62	Scarlatina .....	2		
..	..	..	..	..	..	..	..	..	..	..	..	1	..	Diphtheria .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	1	21	Whooping-cough ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..		
..	..	3	3	1	2	1	..	9	..	3	2	68	79	Diarrhoea .....	2		
..	..	..	..	..	..	..	..	..	..	..	1	3	8	Dysentery .....	..		
..	1	4	..	2	1	2	..	..	**3	..	..	49	49	Continued Fever ....	3		
..	..	1	1	..	..	..	..	..	..	..	..	5	15	Erysipelas .....	..		
..	..	7	..	..	..	1	..	4	2	3	5	77	70	Rheumatism .....	..		
..	..	2	..	..	1	..	..	..	1	..	1	13	23	Neuralgic Affections ..	..		
..	4	..	..	..	..	..	..	..	2	1	..	32	28	Constitutional Syphilis	1		
2	1	4	..	..	..	..	..	3	..	3	..	54	55	Phthisis .....	5		
..	4	..	..	..	..	..	..	..	..	..	..	16	5	Insanity .....	..		
3	2	13	4	..	2	3	2	..	..	9	3	114	186	Bronchitis, Influenza, and Catarrh.....	..		
1	..	1	..	..	..	..	1	..	2	..	..	14	21	Pleurisy & Pneumonia.	..		
..	1	7	..	..	..	..	1	1	..	..	12	60	66	Skin Disease.....	..		
..	..	3	..	..	..	1	1	3	4	5	1	55	64	Dyspepsia .....	..		
5	5	89	..	7	5	4	6	36	2	41	49	710	733	Accidents and diseases not classified.....	15		
11	18	138	8	17	12	12	12	66	18	66	78	1318	1510	TOTAL.....	29		

‡ 2 Typhus and 1 Typhoid. || Not vaccinated. ¶ 1 Typhus and 1 Febricula. \*\* 1 Typhus.

ndeighted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	2
Measles .....	3	..	..	1	..	..	..	..	..	..	..	4	3
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	1	1	7
Scarlatina .....	1	2	1	..	2	3	5	..	..	3	d4	21	52
Diarrhoea .....	5	..	1	4	3	2	2	..	3	2	..	22	29
Fever .....	1	..	d4	1	..	1	e1	..	..	2	..	10	9
Diseases of the Lungs ..	4	7	2	2	..	5	3	..	2	7	1	33	31
Other causes.....	11	15	22	6	12	b10	b5	7	5	21	6	120	108
TOTAL NO. OF DEATHS.	25	24	30	14	17	21	16	7	10	35	12	211	241
TOTAL NO. OF BIRTHS.	41	36	11	19	26	38	24	13	29	61	18	316	298

a 3 Typhus, and 1 Scarlet. b 1 Inquest. c Typhus. d 1, aged 12 months, making 4 from the same house in 14 days.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria.....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	..Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN AUGUST : Inches. Wet Days.			Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERRETH Esq	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
Royton .....	2.832	13						
Eccles.....	2.462	15						
Old Trafford..	2.367	15						
Penketh ...	1.914	11						
Castleton Moor	.....							
Height of barometer cistern above sea level.....	130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.		
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.		
Mean @ 32° F., and reduced to sea level.....	29.750	29.794	29.789	29.787	29.788	29.782		
Highest.....	30.208	30.218	30.204	29.783	30.308	29.800		
Lowest .....	29.482	29.530	29.472	29.018	29.544	29.071		
Range .....	0.726	0.688	0.732	0.765	0.764	0.729		
Temperature.								
Adopted Mean .....	52.2	53.5	53.7	52.6	54.4	51.4		
Range for Week .....	19.9	28.7	26.1	29.3	24.1	23.0		
Daily Range.....	12.1	18.2	16.5	16.2	15.0	12.9		
Maximum in Shade .....	63.4	69.7	66.3	66.3	65.0	61.0		
Minimum in Shade .....	43.5	41.0	40.2	37.0	40.9	38.0		
Temperature of Dew Point .....	46.9	48.8	46.2	46.3	46.9	45.6		
Hygrometrical condition of the Atmosphere	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.		
Degree of Humidity (Saturation—1,000).....	0.820	0.837	0.759	0.805	0.750	0.805		
Prevailing Winds .....		S,SW	S,W	S,SW	SW,WSW	SW.WSW		
Rain .....		1.016	0.987	0.930	0.642	0.964		

September 24, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, OCTOBER 1, 1864.

[No. 218.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 1st of October 1,405 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week there were 1,318, and in the corresponding one of last year 1,600.

Among the zymotic diseases, which prevail at the present time, Continued Fever under one or other of its forms is the most generally diffused over the town. Last week the total number of seizures from this cause amounted to 51; nine of them occurred among the patients of the Salford Dispensary, 1 of them being distinctly referred to as an example of Typhus. Of 6 cases admitted into the fever wards of the Royal Infirmary no fewer than 4 are attributed to Typhus, and the 2 remaining ones to Typhoid Fever. Another case of Typhus came under the observation of Dr. Samuel Booth in the Regent Road District, and was ordered to be removed to the hospital.

Under Small-pox we find an increase; in our preceding report 7 cases were recorded, in the present 11. On the other hand the seizures from Scarlet Fever were less numerous, the respective numbers for the three last weeks being 41, 17, and 16. In the corresponding week of last year there were 65 cases.

In respect to Diarrhœa we observe a marked improvement, the number returned being 50 in place of 71. Twenty of the 50 cases occurred among the children at St. Mary's Hospital and the Clinical Hospital.

Bronchitis and kindred chest affections are once more on the increase, the total number of seizures amounting to 180; in the preceding week there were only 128.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

The number of deaths registered in the eleven districts from which we receive our returns amounted last week to 273, or 61 more than in the preceding week.

There were 3 more cases of Fever than in our previous return. Under Scarlet Fever there is a decrease of 7, and under Diarrhœa of 5.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 32. The zymotic diseases there carried off 404 persons; to this total Scarlet Fever contributed 90. A carman is said to have died from taking an overdose of Epsom salts.

At Greenwich the mean temperature of the air in the week was  $54.5^{\circ}$ , the range of temperature in the week was  $26.8^{\circ}$ . At the warmest of the Manchester stations the mean reading of the thermometer was  $52.8^{\circ}$ ; but both the maximum and minimum in the shade were, in this neighbourhood, considerably higher and lower than in London, the range for the week being at some of our stations as much as  $36^{\circ}$ , or about  $10^{\circ}$  higher than at Greenwich.

Neither in London or in Manchester did any rain fall during the week.

Mr. Heap, in his Meteorological Report, shows that the fall of rain for September was highest at Castleton Moor, where 4.34 inches were measured, and lowest at Old Trafford where it amounted to 4.00 inches.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....		Manchester Township 1,645 .....													
Population in 1861 .....		" " 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	1	..	..	..	..	1	1	..	1	..	..	1	2	..
Scarlatina .....	..	1	..	..	2	2	5	..	..	..	2	..	..	..	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	1	..	3	..	4	2	..	8	..	..	..	9	11
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	4	1	1	..	..	..	6	16	*6	..	..	..	1	2	..
Erysipelas .....	1	..	..	..	..	..	1	..	..	1	1	2	..	..	..
Rheumatism .....	2	1	..	1	..	1	5	20	4	27	3	3	1	2	2
Neuralgic Affections .....	..	..	..	..	..	..	..	..	..	13	..	..	2	..	6
Constitutional Syphilis .....	..	..	..	..	..	..	..	7	..	6	..	..	..	1	2
Phthisis .....	..	2	..	..	4	..	6	..	..	29	3	..	..	..	1
Insanity .....	..	1	..	..	..	..	1	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	..	4	3	..	6	6	19	9	1	35	1	..	4	2	24
Pleurisy and Pneumonia....	1	..	1	..	1	..	3	1	..	4	..	..	1	..	1
Skin Diseases.....	2	2	..	..	..	..	4	12	..	16	..	1	..	8	11
Dyspepsia .....	..	..	..	..	8	..	8	..	..	16	..	1	1	1	11
Accidents and diseases not classified.....	21	7	11	7	11	11	68	45	35	250	3	1	5	56	9
TOTAL .....	31	20	17	8	35	20	131	118	47	406	14	8	16	83	79

\* 4 Typhus and 2 Typhoid.      † Typhus, removed to Hospital      ‡ 1 Typhus.

Medical Officers to whom the Association are indebted

- 1) Mr. R. M. MANN.

2) „ J. BROADBENT,

3) „ EDWARD MEACHAM

4) Dr. BRADDON,
- 5) Dr. JOHN MEDD,

6) „ LEDWARD,

7) Mr. A. PHILIPPS,

8) Dr. GEORGE REED,
- 9) „ W. H. SUTCLIFFE,

10) „ WILLIAM G. ROGERS,

11) „ THOMAS LEEDS,

12) „
- 13) Mr. H. RUSS,

14) Dr. WHITFIELD,

15) Mr. W. G. COLE,

16) „ J. T. COLE,



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

week ending the 1st day of October, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
1,329 .....				477. ....			646. ...		508.	2650.....				Area in Statute Acres.		
70,967. ....				68,209. ...			44,850..		21739	24,448.....				Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											DISEASES.	
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
17	18	19	20	21	22	23	24	25	26	27	28					
..	..	2	..	1	..	3	..	..	1	..	1	11	13	Small-pox .....	1	
..	..	1	..	..	..	..	..	..	..	..	..	1	5	Chicken-pox .....	..	
..	..	1	..	..	..	..	..	3	3	..	1	14	5	Measles .....	2	
..	..	5	..	1	..	..	..	..	2	..	..	16	65	Scarlatina .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	18	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	..	2	2	..	..	..	4	2	2	1	50	70	Diarrhoea .....	3	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Dysentery .....	..	
+1	..	+9	..	§2	..	4	..	..	1	¶2	1	51	53	Continued Fever ....	2	
1	..	1	..	..	1	..	..	..	..	..	..	8	18	Erysipelas .....	..	
1	..	8	1	..	..	..	1	2	..	4	1	87	79	Rheumatism .....	..	
..	..	2	..	..	..	..	..	..	..	1	..	26	17	Neuralgic Affections ..	..	
..	2	..	..	..	..	..	..	..	..	..	1	19	38	Constitutional Syphilis	..	
..	..	4	..	..	..	..	..	1	..	3	1	49	55	Phthisis .....	4	
..	2	..	..	..	..	..	..	..	1	..	3	12	8	Insanity .....	..	
1	2	23	4	4	3	5	2	3	2	11	1	164	228	Bronchitis, Influenza, and Catarrh.....	6	
..	..	2	..	..	..	..	..	1	..	..	3	16	23	Pleurisy & Pneumonia.	1	
2	1	12	..	2	1	..	..	1	..	..	14	85	72	Skin Disease.....	..	
..	1	6	1	..	..	2	1	..	..	6	4	62	68	Dyspepsia .....	..	
3	5	84	2	8	5	4	3	32	..	45	61	734	760	Accidents and diseases not classified.....	25	
9	13	160	10	20	10	18	7	47	12	74	93	1405	1600	TOTAL.....	45	

§ Febricula. || 1 case removed to Hospital. ¶ Typhoid.

ndebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowet.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	1	..	..	..	..	2	..	3	3
Measles .....	..	..	..	2	2	1	1	..	..	..	1	7	3
Whooping-cough.....	..	..	..	..	..	..	..	1	..	..	..	1	5
Scarlatina.....	3	3	3	..	1	..	..	..	..	3	1	14	55
Diarrhoea .....	3	1	1	..	1	3	1	2	3	2	..	17	20
Fever .....	1	2	4	e1	e2	..	..	..	1	e2	..	13	15
Diseases of the Lungs ..	7	6	3	1	..	7	2	..	4	e2	3	35	45
Other causes.....	a23	b16	d32	f20	g15	h9	h9	9	i14	23	i13	183	183
TOTAL NO. OF DEATHS.	37	28	43	24	22	20	13	12	22	34	18	273	329
TOTAL NO. OF BIRTHS.	40	34	13	13	25	34	38	23	38	50	19	327	316

a 17 Inquests      b 7 Inquests.      c 3 Typhus      d 23 Inquests.      e 1 Typhus.      f 7 Inquests.      g 11 Inquests.  
h 2 Inquests.      i 6 Inquests.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

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6	4	6	16	.....Small-pox.....	51	42	30	123
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35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	.....Diphtheria.....	1	..	..	1
102	74	49	225	....Whooping-cough....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	.....Cholera.....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	....Puerperal Fever....	..	..	..	..
27	25	24	76	.....Insanity.....	67	41	43	151
1169	724	622	2515	..Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	.....Pleurisy.....	84	54	51	139
39	31	19	89	.....Pneumonia.....				
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	.....TOTAL.....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN SEPTEMBER :			Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches.		Wet Days.						
Castleton Moor	4.340	..... 20						
Penketh ....	4.314	..... 22						
Royton .....	4.130	..... 21						
Eccles.....	4.075	..... 21						
Old Trafford..	4.009	..... 21						
Height of barometer cistern above sea level.....			130 ft.	123 ft.	118ft.	522 ft.	39 ft.	475 ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....			30.237	30.266	30.260	30.255	30.257	30.253
Highest.....			30.296	30.295	30.284	29.840	30.390	29.903
Lowest .....			30.052	30.062	30.062	29.628	30.184	29.684
Range .....			0.244	0.233	0.222	0.212	0.206	0.219
Temperature.								
Adopted Mean .....			52.5	52.5	52.8	51.6	52.7	49.9
Range for Week .....			26.4	31.8	32.2	36.1	36.0	31.9
Daily Range.....			16.1	20.2	19.3	21.9	21.1	17.1
Maximum in Shade .....			68.4	71.8	70.6	72.4	73.0	68.5
Minimum in Shade .....			42.0	40.0	38.4	36.3	37.0	36.7
Temperature of Dew Point .....			47.5	47.5	45.4	45.2	47.0	43.9
Hygrometrical condition of the Atmosphere.			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....			0.830	0.830	0.766	0.788	0.810	0.746
Prevailing Winds .....				SW, NE	NW, NE	SW, NE	NE, NW	NE, SW
Rain .....				0.000	0.000	0.000	0.026	0.000

Oct'ober 1, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, OCTOBER 8, 1864.

[No. 219.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 8th instant the number of diseases which came under the medical officers connected with the various Charitable Institutions and Poor Law Unions amounted to 1,349, or 56 fewer than in the preceding week.

Several of the more important diseases, such as Small-pox and Scarlet Fever, exhibit a decrease; thus, in respect to the former, we find 3 seizures in place of 11; and, in the latter, of 12 in place of 16. Measles, however, is once more on the increase: in our former return 14 cases were reported, in the present 23; it is still chiefly met with in Chorlton. In this quarter of the town 12 out of the 23 cases occurred.

Continued Fever, unfortunately, is still very prevalent; of the 45 recorded cases no fewer than 12 were examples of Typhoid and 7 of Typhus. It should be borne in mind that the former of these diseases is believed by many well capable to express an opinion to be solely due to a neglect of drainage, i.e., to exhalations given off from decaying animal and vegetable matter. Where therefore the medical attendant declares a given case to be one of Typhoid, Gastric, or Euteric Fever, the friends of the patient should suspect that the atmosphere of their dwellings is not pure. It is doubtful whether the disease is contagious, hence several seizures in the same house are more probably due to the influence of the exhalations given off in and around the dwelling than to infection.

Typhus, on the other hand, is thought very contagious, or "catching." Where a case is spoken of as Typhus the patient should, if possible, be either sent to an hospital, or entirely isolated from the rest of the family and placed in a chamber at the top of the dwelling.

Of the 7 cases of Typhus 4 are reported by Dr. Braddon as having been attended by him in a lodging-house in Hanover-street, Cathedral District. The sufferers were a husband, wife, and two children; they were all very properly sent to the hospital.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 190 deaths occurred in the eleven districts included in our return: in the corresponding one of last year 224. Thus the return is more favourable than it usually is at this season.

With the exception of Fever the zymotic diseases generally exhibit a decrease; thus the deaths from Scarlet Fever fell from 14 to 7, those from Measles from 7 to 5. There were no fewer than 14 deaths from Continued Fever. Hence we see that the registers corroborate our disease returns and show how many of these seizures belong to the more formidable varieties of that disorder.

In London the deaths exceeded the average by 70.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 49.7°. At Eccles and Old Trafford the mean was respectively 49.8° and 49.6°. Thus the weather here was as warm as in the metropolis.

No rain fell during the week. North-Easterly winds very generally prevailed.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	1	..	1	1	2	..	..	..	1	3	1
Scarlatina .....	..	..	1	..	3	..	4	1	..	..	2	..	1	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	3	..	..	2	1	6	1	..	3	..	..	..	6	6
Dysentery .....	..	1	..	..	..	1	2	..	..	..	..	..	..	..	..
Continued Fever.....	*6	+1	‡1	§4	..	2	14	1	¶3	..	1	**1	1	1	..
Erysipelas .....	1	..	..	..	1	1	3	..	..	2	1	1	1	1	..
Rheumatism .....	2	1	..	..	3	2	8	12	2	29	3	1	2	..	1
Neuralgic Affections .....	..	..	..	..	..	..	..	..	4	5	2	..	2	..	3
Constitutional Syphilis .....	..	..	..	..	..	..	..	7	..	13	1	..	..	..	..
Phthisis .....	2	1	..	1	2	..	6	3	..	33	2	3	2	2	3
Insanity .....	..	3	..	..	..	..	3	5	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	4	4	1	1	7	2	19	12	..	31	1	1	2	7	20
Pleurisy and Pneumonia.....	..	..	..	..	1	..	1	1	..	..	2	..	4	..	..
Skin Diseases.....	2	1	1	1	..	1	6	11	1	17	..	..	1	2	9
Dyspepsia .....	..	2	..	..	..	..	2	..	..	24	..	1	1	3	3
Accidents and diseases not classified.....	43	11	10	9	11	13	97	56	38	173	..	8	8	48	9
TOTAL .....	60	28	14	16	31	24	173	111	50	330	15	16	26	74	55

\* Typhoid, removed to Hospital

+ Typhus, removed to Hospital.

‡ Removed to Hospital.

Medical Officers to whom the Associates

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) } Mr. W. H. SUTCLIFFE,  
(10) } „ WILLIAM G. ROGERS,  
(11) } „ THOMAS LEEDS,  
(12) }

(13) Mr. H. RUN  
(14) Dr. WHITE  
(15) Mr. W. GOL  
(16) „ J. TEAL



# ANITARY ASSOCIATION.

## NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 8th day of October, 1864

SALFORD.				HULME.			CHORLTON.		ARD-WICK	PENDLETON AND PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
1,329 .....				477.....			646...		508.	2650.....					
70,967. ....				68,209. ...			44,850..		21739	24,448 .....					
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Work- house.	Total.	Corresponding Week last Year.	DISEASES.	
	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.									
17	18	19	20	21	22	23	24	25	26	27	28				
..	..	1	..	..	..	..	..	..	..	1	..	3	23	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	1	1	..	Chicken-pox .....	..
..	..	..	..	1	..	..	4	4	1	..	4	23	8	Measles .....	1
..	..	..	..	..	2	..	..	1	..	..	..	12	79	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..
..	..	..	..	1	..	..	..	..	..	1	..	2	29	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
1	1	3	2	1	5	..	..	6	5	2	1	50	76	Diarrhoea .....	1
..	..	1	..	..	..	..	1	..	..	1	1	6	6	Dysentery .....	1
1	2	19	..	**1	1	3	2	..	4	..	..	45	58	Continued Fever ....	2
..	..	..	..	..	..	2	..	2	1	2	..	16	19	Erysipelas .....	..
3	..	7	1	2	..	4	..	1	3	5	2	87	95	Rheumatism .....	..
..	..	1	..	..	..	..	..	1	1	..	1	20	25	Neuralgic Affections ..	..
..	1	4	..	..	..	..	..	2	..	2	3	35	43	Constitutional Syphilis	..
1	1	7	..	..	..	1	2	..	1	1	1	70	63	Phthisis .....	3
..	1	..	..	..	..	..	..	..	..	..	3	12	10	Insanity .....	1
3	1	10	4	2	5	3	3	8	7	14	..	159	225	Bronchitis, Influenza, and Catarrh.....	6
..	..	1	..	..	..	..	..	1	..	..	1	11	14	Pleurisy & Pneumonia.	2
1	3	2	..	..	1	..	..	3	..	..	6	63	86	Skin Disease.....	..
..	1	4	..	..	1	1	..	..	3	5	4	54	87	Dyspepsia .....	..
6	6	84	1	7	4	3	6	28	2	47	37	680	764	Accidents and diseases not classified.....	24
16	17	134	8	15	19	17	18	57	28	81	65	1349	1712	TOTAL.....	42

husband, Wife, and 2 Children, removed to Hospital. || Febricula. ¶ 1 Typhus, and 2 Typhoid. \*\* Typhoid.

Debited for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tuppel.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	b1	..	2	1	..	..	1	1	h1	3	3
Measles .....	..	..	..	1	..	..	..	1	..	..	..	5	4
Whooping-cough .....	..	..	1	..	..	..	..	..	..	..	1	2	4
Scarlatina .....	2	1	2	1	..	..	..	..	..	..	..	7	49
Diarrhoea .....	5	1	1	3	1	1	3	..	..	1	..	16	17
Fever .....	a2	2	c2	3	1	1	1	..	..	g2	..	14	9
Diseases of the Lungs ..	3	5	5	3	..	9	4	..	3	2	1	35	47
Other causes .....	11	15	11	10	7	d6	e18	f6	3	14	7	108	91
TOTAL NO. OF DEATHS.	23	24	23	21	11	18	26	7	7	20	10	190	224
TOTAL NO. OF BIRTHS.	33	40	12	15	12	24	18	18	26	31	15	244	248

a Typhus. b Confluent, not vaccinated. c 1 Typhus. d 2 Inquests. e 1 Cholera and 1 Inquest. f 1 Inquest.  
h Aged 49 years, vaccinated. g 1 Typhoid.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	.....Chicken-pox.....	11	9	10	30
16	12	17	45	.....Measles.....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	.....Diphtheria.....	1	..	..	1
102	74	49	225	....Whooping-cough....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	.....Cholera.....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	....Puerperal Fever....	..	..	..	..
27	25	24	76	.....Insanity.....	67	41	43	151
1169	724	622	2515	..Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	.....Pleurisy.....	84	54	51	189
39	31	19	89	.....Pneumonia.....	..	..	..	..
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	.....TOTAL.....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN SEPTEMBER : Inches. Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Fenketh, Warrington. L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	4.340	.....	20						
Penketh	4.314	.....	22						
Royton	4.130	.....	21						
Eccles	4.075	.....	21						
Old Trafford	4.009	.....	21						
Height of barometer cistern above sea level .....	130 ft.	123 ft.	118 ft.	522 ft.	39 ft.	475 ft.			
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.			
Mean @ 32° F., and reduced to sea level .....	30.283	30.298	30.288	30.284	30.275	30.277			
Highest .....	30.346	30.323	30.334	29.879	30.430	29.954			
Lowest .....	30.120	30.098	30.102	29.639	30.190	29.722			
Range .....	0.226	0.230	0.232	0.240	0.240	0.232			
Temperature.									
Adopted Mean .....	49.1	49.6	49.8	48.6	47.8	47.9			
Range for Week .....	20.4	25.7	23.7	23.0	29.6	21.0			
Daily Range .....	13.9	16.9	15.5	15.2	22.5	13.8			
Maximum in Shade .....	61.6	65.0	61.7	62.0	62.6	60.0			
Minimum in Shade .....	41.2	39.3	38.0	39.0	33.0	39.0			
Temperature of Dew Point .....	40.7	40.2	38.6	39.2	37.9	37.6			
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.			
Degree of Humidity (Saturation—1,000) .....	0.725	0.706	0.654	0.700	0.696	0.685			
Prevailing Winds .....		NE	E, NE	E, SE	E, ENE	E, ESE			
Rain .....		0.000	0.000	0.000	0.000	0.000			

October 8, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, OCTOBER 15, 1864. [No. 220.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 15th instant 1,323 new cases of disease were observed among the patients connected with the various Charitable Institutions and Poor Law Unions: in the preceding week there were 1,349, and in the corresponding one of last year 1,635.

There were only 3 cases of Small-pox. The seizures from Measles fell from 23 to 11; 5 of the 11 occurred among the patients of the Chorlton Dispensary. Mr. Rayner, however, informs us that in this quarter of the town the epidemic of Measles is declining.

Under Scarlet Fever we once more find an increase. In our preceding return 12 cases were reported, in the present 24: in the corresponding week of last year there were 98.

By far the most unfavourable feature in the present return is the increasing prevalence of Continued Fever under some of its most dreaded forms. In no preceding week since our Weekly Returns commenced, in August, 1860, were the seizures as numerous; they amounted to no fewer than 93. The nearest approach to this number was in the week ending on the 19th of October, 1861, when there were 79 cases. Of the 93, 32 are designated as Typhus, and 14 as Typhoid. Twenty of the former are at present patients at the Manchester Workhouse Hospital; 7 more cases of the same disorder were seen by Dr. Booth, in Salford, and were ordered to be removed to the Hospital; 4 more occurred at the Salford Workhouse. Thus, of the 32 cases, no fewer than 31 are at the present time separated from their families, and attended at the various Hospitals. Of the Typhoid seizures 6 occurred in a single family in the St. Peter's District; they were patients of Mr. Mann's, and all sent to the Hospital. Four more were observed among the sick poor who are relieved at the Salford Dispensary.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 185 deaths were registered in the eleven districts from which we receive our returns: in the corresponding week of last year there were 215. Taken as a whole the present return may be deemed highly satisfactory. We learn from it what has frequently been observed before that the prevalence of an epidemic by no means implies an increase of the general death-rate.

There were 6 fatal cases of Measles, 12 of Scarlet Fever, and 14 of Continued Fever.

In London, according to the last report of the Registrar General, the deaths exceeded the average by 172.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 50.3°, at the Royal Infirmary last week, the warmest of our stations, it was 47.5°. Thus the weather, generally, was considerably warmer in London than in this neighbourhood.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN.	
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles .....	..	..	..	..	1	..	1	..	..	..	..	..	..	1	1
Scarlatina .....	..	2	3	..	2	4	11	..	..	..	..	2	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	4	..	5	..	..	3	1	..	..	16	4
Dysentery .....	..	..	..	1	..	..	1	..	..	1	..	..	..	..	1
Continued Fever.....	*10	+2	2	..	1	1	16	+28	3	..	..	§1	§1	4	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..
Rheumatism .....	2	1	..	..	2	3	8	13	8	4	3	..	..	1	4
Neuralgic Affections .....	..	..	..	..	..	..	..	..	2	5	..	..	..	..	3
Constitutional Syphilis .....	..	..	..	..	..	..	..	11	..	8	..	..	..	..	..
Phthisis .....	..	1	2	2	1	1	7	3	..	20	2	3	4	..	2
Insanity .....	..	..	1	1	..	..	2	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	7	4	2	1	6	9	29	27	1	26	4	1	1	9	16
Pleurisy and Pneumonia.....	1	..	1	..	..	..	2	..	1	3	1	1	2	..	1
Skin Diseases.....	..	2	..	..	..	2	4	13	..	5	1	..	..	5	7
Dyspepsia .....	..	..	..	1	3	..	4	..	..	17	..	1	3	2	4
Accidents and diseases not classified.....	24	10	38	5	4	17	98	24	37	162	4	6	9	52	14
TOTAL .....	44	23	49	11	24	37	188	123	52	255	17	15	20	92	58

\* 6 Typhoid, in one Family, sent to Hospital.

+ 1 Typhus, and 1 Febricula.

‡ 20 Cases of Typhus.

Medical Officers to whom the Association are indebted.

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) „  
(10) Mr. W. H. SUTCLIFFE,  
(11) „ WILLIAM G. ROGERS,  
(12) „ THOMAS LEEDS,

(13) Mr. H. RU  
(14) Dr. WHITE  
(15) Mr. W. GO  
(16) „ J. TEA



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 15th day of October, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477 .....			646 .....		508 .....	2650 .....			Area in Statute Acres.		
70,967 .....				68,209 .....			44,850 .....		21,739 .....	24,448 .....			Population in 1861.		
POOR LAW DISTRICT.	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	2	..	..	..	..	..	..	..	..	..	..	3	11	Small-pox .....	..
..	1	..	..	..	..	..	..	..	..	..	..	2	..	Chicken-pox .....	..
..	..	..	..	..	..	..	..	5	2	..	1	11	8	Measles .....	1
..	3	3	..	2	..	..	..	..	1	1	..	24	98	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	8	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
..	..	1	3	..	..	..	..	2	2	..	..	38	72	Diarrhoea .....	1
..	..	..	..	..	..	1	..	1	..	..	..	5	9	Dysentery .....	1
7	¶ 4	** 12	..	§ 2	1	4	..	..	2	** 4	2	93	61	Continued Fever ....	4
..	..	..	..	..	..	..	1	..	..	..	1	4	13	Erysipelas .....	..
..	1	5	1	..	..	..	1	2	1	6	3	62	90	Rheumatism .....	1
2	..	2	..	..	..	..	..	..	..	1	..	15	11	Neuralgic Affections ..	..
..	..	7	..	..	..	..	1	1	..	1	5	35	36	Constitutional Syphilis	..
..	1	3	..	..	2	1	1	..	1	2	3	57	50	Phthisis .....	4
..	1	..	..	..	..	..	..	..	..	..	7	14	9	Insanity .....	1
2	1	12	5	4	4	2	6	8	2	10	4	182	215	Bronchitis, Influenza, and Catarrh .....	5
..	..	2	..	1	2	2	..	..	..	1	1	20	12	Pleurisy & Pneumonia.	1
..	2	5	..	..	..	..	2	..	..	2	8	54	62	Skin Disease .....	1
..	..	10	2	1	3	..	2	2	..	4	..	55	60	Dyspepsia .....	..
1	4	92	1	7	5	1	3	31	1	39	48	649	810	Accidents and diseases not classified .....	24
12	20	154	12	17	17	11	17	52	12	71	83	1323	1635	TOTAL .....	44

‡ Febricula.

|| Typhus, removed to Hospital.

¶ Typhus.

\*\* 4 Typhoid.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) J. O. BRADBURY,  
(20) W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) J. V. L. WESTMACOTT,  
(27) JOHN HOLDEN,  
(28) J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Charlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles .....	1	..	..	1	1	..	..	..	2	1	..	6	5
Whooping-cough.....	..	..	1	..	..	..	..	..	..	2	1	2	10
Scarlatina .....	3	3	..	1	1	2	..	..	1	2	..	12	44
Diarrhoea .....	1	1	..	..	3	3	1	..	1	2	..	12	10
Fever .....	1	1	3	a1	b1	1	c2	1	..	2	f1	14	9
Diseases of the Lungs ..	5	10	4	2	1	6	4	..	1	4	5	42	32
Other causes.....	11	15	8	6	8	10	d7	e11	3	15	3	97	104
<b>TOTAL NO. OF DEATHS.</b>	<b>22</b>	<b>30</b>	<b>16</b>	<b>11</b>	<b>15</b>	<b>22</b>	<b>14</b>	<b>12</b>	<b>7</b>	<b>26</b>	<b>10</b>	<b>185</b>	<b>215</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>42</b>	<b>39</b>	<b>29</b>	<b>21</b>	<b>18</b>	<b>27</b>	<b>20</b>	<b>23</b>	<b>20</b>	<b>45</b>	<b>20</b>	<b>304</b>	<b>316</b>

a Typhus.    b Typhoid.    c 1 Typhus and 1 Typhoid.    d 2 Inquests.    e 1 Inquest.    f Gastric.

## Monthly Return of New Cases of Disease coming under Treatment.

*In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.*

*At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.*

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	.....Chicken-pox.....	11	9	10	30
16	12	17	45	.....Measles.....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	.....Diphtheria.....	1	..	..	1
102	74	49	225	....Whooping-cough....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	.....Cholera.....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	....Puerperal Fever....	..	..	..	..
27	25	24	76	.....Insanity.....	67	41	43	151
1169	724	622	2515	..Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	.....Pleurisy.....	84	54	51	189
39	31	19	89	.....Pneumonia.....	..	..	..	..
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5880	4099	4347	14326
6980	5006	5589	17575	.....TOTAL.....	7633	5067	5391	18091

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN SEPTEMBER :			Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.						
Castleton Moor	4.340	..... 20						
Penketh	4.314	..... 22						
Royton	4.130	..... 21						
Eccles	4.075	..... 21						
Old Trafford	4.009	..... 21						
Height of barometer cistern above sea level.....			130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>								
Mean @ 32° F., and reduced to sea level.....			INS. 30.264	INS. 30.237	INS. 30.229	INS. 30.218	INS. 30.230	INS. 30.225
Highest.....			30.350	30.354	30.318	29.889	30.451	29.960
Lowest .....			30.050	29.916	29.940	29.500	30.042	29.578
Range .....			0.300	0.438	0.378	0.389	0.409	0.382
<b>Temperature.</b>								
Adopted Mean .....			47.5	46.2	46.4	46.4	47.2	45.8
Range for Week .....			18.3	26.8	25.7	26.6	27.6	22.3
Daily Range.....			12.2	15.8	15.5	15.2	14.4	12.8
Maximum in Shade .....			56.4	59.8	57.4	59.0	58.4	55.6
Minimum in Shade .....			38.1	33.0	31.7	32.4	30.8	33.3
Temperature of Dew Point .....			41.3	40.6	40.2	42.4	40.4	38.8
<b>Hygrometrical condition of the Atmosphere.</b>								
Degree of Humidity (Saturation—1,000).....			GRS. 0.796	GRS. 0.820	GRS. 0.801	GRS. 0.853	GRS. 0.778	GRS. 0.762
Prevailing Winds .....								
Rain .....								

October 15, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, OCTOBER 22, 1864.

[No. 221.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday the 22nd instant the number of new cases of disease which occurred in connection with the various Charitable Institutions and Poor Law Unions amounted to 1,359: in the corresponding week of last year to 1,675.

There were 12 cases of Small-pox, 4 of which were under the care of Mr. Williamson, in St. Philip's, Hulme, and 3 more occurred in connection with the Ardwick and Ancoats Dispensary.

Scarlet Fever is still smouldering in various quarters of the town, the seizures in the week amounting to 20: in the corresponding week in October, '63, there were 72.

Though the number of cases of Continued Fever did not come up to that recorded in our preceding return the disease is still raging; of the 67 seizures 19 proved examples of Typhus and 4 of Typhoid Fever. Several of the former reported as "Maculated Typhus" are patients of the Workhouse; 2 more came under the observation of Mr. Mann, in St. Peter's District, and 2 of Mr. Broadbent (the latter were sent to the Hospital); 5 are in the Fever Wards of the Royal Infirmary; 2 more in the Salford Workhouse; and 1 patient of Dr. Booth's, in Salford, was removed to the Hospital.

The highly malignant character of the Fever which is at present raging is clearly seen by the number of the deaths. Out of the 48 which occurred in connection with the various public institutions 11 arose from Fever,—6 at the Workhouse, and 4 at the Infirmary. We must bear in mind, likewise, that Typhus is a disorder which is especially prone to attack adults. It is not, like Measles and Scarlet Fever, to a great extent confined to children, but lays prostrate the parents,—those in fact on whom the family is dependent for support. Though it is undoubtedly highly contagious, it is certainly aggravated and even generated by hunger, and crowding, and want. Whenever Typhus Fever is prevalent we may suspect that the wants of the poor are not fully supplied.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 191 deaths were registered in the eleven districts from which we receive our returns: in the corresponding week of last year there were 253. Were it not for the epidemic of Typhus, which prevails at the present time, the state of the public health might be deemed decidedly satisfactory. Fifteen of the deaths are ascribed to Scarlet Fever, 14 to Continued Fever, and 10 to Diarrhoea.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 147.

At the Royal Observatory, Greenwich, the mean height of the thermometer in the week was 53.1°, at Old Trafford it was 49.3°, at the Infirmary 48.4°, and at Eccles 48.2°. In London the highest day temperature was 67.2°, in this neighbourhood 62.1°. We thus see that the weather was considerably warmer in London than at any of our stations.

In Manchester upwards of one inch of rain is stated to have been measured, in London a little more than half an inch.

South-Westerly winds very generally prevailed.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

DISEASES.	MANCHESTER.													
	MANCHESTER.													
	<div> <div>Area in Statute Acres .....</div> <div>Population in 1861 .....</div> </div> <div> <div>Manchester Township 1,645 .....</div> <div>" " 185,050 .....</div> </div>													
	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.						
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN
	1	2	3	4	5	6		7	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.
									8	9	10	11	12	13
														14
Small-pox .....	..	..	..	+1	..	..	1	1	1	..	..	..	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	1	..	..	1	..	..	..	..	..	2	1
Scarlatina .....	2	1	1	..	2	2	8	..	..	..	..	..	..	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	4
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	..	..	..	2	..	2	5	..	..	..	1	..	8
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Continued Fever .....	*6	+2	1	..	1	..	10	§15	5	..	..	¶5	1	8
Erysipelas .....	..	..	..	..	..	..	..	..	..	1	..	..	1	..
Rheumatism .....	3	2	1	2	1	..	9	9	3	20	6	1	1	..
Neuralgic Affections .....	..	1	..	..	..	..	1	..	1	10	2	1	4	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	14	1	5	2	..	..	..
Phthisis .....	..	..	1	..	3	2	6	7	..	19	3	3	..	1
Insanity .....	..	..	..	..	..	1	1	2	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	4	3	2	6	9	25	14	..	34	9	3	7	6
Pleurisy and Pneumonia....	1	1	1	1	1	..	5	2	3	1	2	1	..	..
Skin Diseases .....	..	1	..	..	..	1	2	12	..	8	..	..	..	6
Dyspepsia .....	..	..	2	..	5	..	7	3	..	16	..	..	..	..
Accidents and diseases not classified.....	25	7	29	5	3	9	78	46	35	132	2	7	8	38
TOTAL .....	38	19	39	12	24	24	156	130	49	246	26	22	24	75

\* 2 Typhus.    †Typhus, sent to hospital.    ‡ Modified, vaccinated.    § 7 Maculated Typhus.    || Typhus.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM  
(4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) } Mr. W. H. SUTCLIFFE,  
(10) } „ WILLIAM G. ROGERS,  
(11) } „ THOMAS LEEDS,  
(12) }

(13) Mr. H. RU  
(14) Dr. WHITE  
(15) Mr. W. G  
(16) „ J. TEA



# 

NS OF MANCHESTER AND ADJOINING DISTRICTS.

ek ending the 22nd day of October, 1864

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
1,329 .....				477. ....			646. ...		508.	2650.....				Area in Statute Acres.		
70,967. ....				68,209. ....			44,850..		21739	24,448.....				Population in 1861.		
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											DISEASES.	
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
17	18	19	20	21	22	23	24	25	26	27	28					
**1	..	..	..	†1	..	4	..	..	..	3	..	12	9	Small-pox .....	..	
..	..	..	..	..	..	1	..	..	..	..	..	1	..	Chicken-pox .....	..	
1	..	3	..	..	..	..	..	5	..	..	..	15	17	Measles .....	..	
..	..	5	..	..	..	..	2	..	2	1	..	20	72	Scarlatina .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	4	19	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	2	2	..	..	1	..	3	2	..	2	34	58	Diarrhoea .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	7	Dysentery .....	..	
††1	*3	..	..	††5	1	4	..	..	1	§§2	5	67	61	Continued Fever ....	11	
..	..	2	..	..	..	1	..	1	..	1	..	7	22	Erysipelas .....	..	
..	1	7	2	2	..	..	..	3	2	5	4	79	113	Rheumatism .....	..	
..	..	3	..	..	..	..	..	1	..	1	..	25	25	Neuralgic Affections ..	..	
..	1	5	..	..	..	..	..	1	..	2	5	40	48	Constitutional Syphilis	1	
..	1	8	..	..	2	..	..	..	..	3	3	57	64	Phthisis .....	6	
1	2	..	..	..	..	..	..	..	..	..	7	13	6	Insanity .....	..	
2	..	15	4	2	4	4	7	6	4	14	1	183	238	Bronchitis, Influenza, and Catarrh.....	8	
..	..	3	..	..	2	..	..	1	..	..	1	21	18	Pleurisy & Pneumonia.	2	
..	3	11	..	..	..	..	1	2	..	1	12	71	91	Skin Disease.....	..	
..	..	11	..	..	3	1	2	..	..	5	3	59	87	Dyspepsia .....	..	
3	4	96	1	7	5	2	1	44	2	54	55	650	718	Accidents and diseases not classified.....	19	
9	15	171	9	17	17	18	13	67	13	92	98	1359	1675	TOTAL.....	48	

abricula and 1 Typhoid. \*\*Not vaccinated. ++ Typhus, removed to hospital. †† 1 Typhoid, removed to hospital. §§ Typhoid.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
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Small Pox .....	1	..	..	..	1	..	..	..	..	..	..	2	4
Measles .....	..	..	..	2	1	..	..	..	..	1	..	4	1
Whooping-cough.....	..	..	..	..	1	1	..	..	..	..	..	2	5
Scarlatina .....	1	4	1	..	1	..	1	..	2	5	..	15	62
Diarrhoea .....	3	1	1	..	1	2	1	..	1	..	..	10	14
Fever .....	..	2	25	..	1	..	..	..	d1	2	e3	14	8
Diseases of the Lungs ..	6	4	5	2	..	7	..	..	3	10	2	39	38
Other causes.....	10	11	12	2	12	64	e18	9	9	12	6	105	121
TOTAL NO. OF DEATHS.	21	22	24	6	18	14	20	9	16	30	11	191	253
TOTAL NO. OF BIRTHS.	48	29	7	15	19	23	20	14	24	50	18	267	327

a 4 Typhus.      b 1 Inquest.      c 2 Inquests.      d Typhus,      e 2 Typhus.

Monthly Return of New Cases of Disease coming under Treatment.

In 11 Charitable Institutions in  
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8	7	2	17	..... Carbuncle .....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
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Royton .....	4.130	..... 21						
Eccles.....	4.075	..... 21						
Old Trafford..	4.009	..... 21						
Height of barometer cistern above sea level.....			130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....			29.363	29.374	29.369	29.382	29.352	29.346
Highest.....			29.748	29.730	29.690	29.223	29.782	29.286
Lowest.....			28.794	28.765	28.794	28.333	28.894	28.440
Range .....			0.954	0.965	0.896	0.890	0.888	0.846
Temperature.								
Adopted Mean .....			48.4	49.3	48.2	47.6	49.9	47.2
Range for Week .....			18.7	21.2	21.2	23.0	23.4	20.9
Daily Range.....			11.1	14.9	13.0	13.7	11.6	12.2
Maximum in Shade .....			60.5	62.0	62.1	61.2	61.0	59.9
Minimum in Shade .....			41.8	40.8	40.9	38.2	37.6	39.0
Temperature of Dew Point .....			42.7	43.5	40.8	43.0	43.3	41.2
Hygrometrical condition of the Atmosphere.			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....			0.772	0.807	0.760	0.848	0.778	0.778
Prevailing Winds .....				SW,E	SW,E	SW,E	WSW,E	SW,SE
Rain .....				1.128	1.216	1.545	1.178	1.548

October 22, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.]

WEEK ENDING SATURDAY, OCTOBER 29, 1864.

[No. 222.]

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, the 29th of October, 1,446 new cases of disease were observed in connection with the various public Institutions and Poor Law Unions.

On turning to the zymotic diseases we observe a remarkable increase under Small-pox, the number of seizures amounting to 25; in the two preceding weeks the respective numbers were 3 and 12. No fewer than 12 of the 25 cases occurred in St. Philip's, and 4 in St. George's (Hulme) Poor Law District. Mr. John Smith has kindly favoured us with some observations on the outbreak of the disorder in the latter district. He refers to the extreme recklessness of the people in exposing themselves to the infection, observing that he lately "attended a terrible case of confluent variola (Small-pox), in an unvaccinated woman, which resulted in death, and very commonly found the room in which she lay crowded with women, and on one occasion an unvaccinated child was present." He proceeds to remark that he has had 4 deaths from Small-pox since the 19th of September, all were confluent cases and in *unvaccinated* persons. The cases in vaccinated subjects were, with a single exception, which ended favourably, mild cases. He has found, likewise, that even in those houses in which the disorder is actively present revaccination of the remaining occupants has checked its spreading.

There were 17 cases of Scarlet Fever, 7 among the patients of the Salford Dispensary.

The seizures from Continued Fever proved less numerous, amounting to 53 instead of 93 and 67, the numbers recorded in our two preceding returns. Fourteen of the 53 proved examples of Typhus and 3 of Typhoid Fever.

The cases of Bronchitis and kindred chest affections rose from 204 to 237.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the number of deaths registered in the eleven districts amounted to 201. It exhibits an excess of 10 over the preceding week. This, however, is in a great measure accounted for by the 22 deaths which are ascribed to Fever. This number, as compared with that which generally prevails in Manchester, is certainly excessive.

As the season advances the deaths from Diseases of the Lungs are increasing. In the two last weeks the respective numbers were 39 and 58.

In London the deaths in the course of the week exceeded the estimated number by 210.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was  $50.6^{\circ}$ , at the Royal Infirmary it was  $50.4^{\circ}$ , at Eccles  $50.5^{\circ}$ , and at Old Trafford  $50.8^{\circ}$ . In the neighbourhood of London the range of temperature for the week was  $22.3^{\circ}$ ; at none of the Manchester stations did it exceed  $18.2^{\circ}$ .

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment In

MANCHESTER.															
Area in Statute Acres .....								Manchester Township 1,645 .....							
Population in 1861 .....								" " 185,050 .....							
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	2	1	..	..	..	..	..	..
Chicken-pox .....	..	1	1	..	..	..	2	..	..	..	..	..	1	..	..
Measles .....	..	..	..	2	2	..	4	..	..	..	..	..	..	..	..
Scarlatina .....	..	..	..	..	2	..	2	..	..	..	1	..	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	1	..	1	..	..	..	..	..	..	1	1
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	1	1	..	1	4	3	..	4	1	..	..	5	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	1	*1	1	..	1	1	5	†11	§2	..	1	..	2	3	1
Erysipelas .....	..	..	1	..	1	..	2	..	..	2	..	..	..	..	..
Rheumatism .....	1	..	1	..	4	2	8	9	2	29	2	..	..	..	5
Neuralgic Affections .....	..	..	..	1	..	..	1	..	5	11	..	..	1	..	3
Constitutional Syphilis .....	..	..	..	..	..	1	1	7	..	15	..	..	..	..	4
Phthisis .....	..	1	2	..	1	1	5	5	..	27	3	2	2	..	2
Insanity .....	..	1	..	..	..	..	1	3	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	..	9	6	4	3	11	33	20	..	47	3	..	11	6	13
Pleurisy and Pneumonia.....	1	..	..	..	..	..	1	..	1	5	1	2	3	1	3
Skin Diseases.....	..	..	..	..	2	1	3	17	..	15	..	..	1	5	4
Dyspepsia .....	..	2	..	..	7	..	9	2	1	23	..	..	..	..	7
Accidents and diseases not classified.....	30	10	22	3	3	13	81	20	29	185	..	9	8	72	19
TOTAL .....	33	26	35	11	27	31	163	99	41	363	12	13	29	94	66

\* Typhus, sent to hospital. + 5 Maculated Typhus. § 1 Typhus and 1 Typhoid. || Typhus. || Typhoid.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.  
2) " J. BROADBENT,  
3) " EDWARD MEACHAM  
4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,  
(6) " LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

- (9) } Mr. W. H. SUTCLIFFE,  
(10) } " WILLIAM G. ROGERS,  
(11) } " THOMAS LEEDS,  
(12) }

- (13) Mr. H. RUISE,  
(14) Dr. WHITE,  
(15) Mr. W. GOULD,  
(16) " J. TEAR



# NITARY ASSOCIATION.

S OF MANCHESTER AND ADJOINING DISTRICTS.

ending the 29th day of October, 1864.

ALFORD.				HULME.			CHORLTON.		ARD-WICK.		PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477. ....			646. ...		508. ....		2650.....			Area in Statute Acres.		
70,967. ....				68,209. ...			44,850..		21739		24,448 .....			Population in 1861.		
W CT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.		
	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
7	18	19	20	21	22	23	24	25	26	27	28					
..	..	..	..	4	2	++12	1	..	..	..	3	25	8	Small-pox .....	2	
..	..	..	..	..	..	1	..	..	..	..	..	4	..	Chicken-pox .....	..	
..	..	4	..	1	..	..	..	1	3	2	..	15	6	Measles .....	1	
..	4	7	..	..	..	..	..	..	2	..	..	17	56	Scarlatina .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..	
..	3	..	..	..	..	..	..	..	1	..	..	7	12	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	1	4	3	3	4	2	..	2	..	..	5	45	60	Diarrhoea .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	5	Dysentery .....	..	
..	**3	1	..	++3	2	§§6	2	1	2	¶1	6	53	35	Continued Fever ....	7	
1	1	2	..	..	..	..	..	..	..	1	1	10	22	Erysipelas .....	..	
1	..	9	2	1	1	3	2	3	2	4	5	89	89	Rheumatism .....	..	
..	..	4	..	..	..	..	..	..	..	..	..	25	28	Neuralgic Affections ..	..	
..	3	4	..	..	..	1	..	..	1	3	6	45	45	Constitutional Syphilis	..	
..	..	11	..	..	..	..	..	1	1	2	1	62	49	Phthisis .....	10	
..	2	..	..	..	1	..	1	..	..	..	5	13	8	Insanity .....	..	
3	1	17	5	6	9	..	3	9	3	10	7	214	255	Bronchitis, Influenza, and Catarrh.....	9	
1	..	2	..	..	..	1	..	..	..	1	1	23	11	Pleurisy & Pneumonia.	1	
..	1	3	..	..	..	2	2	8	..	..	8	75	77	Skin Disease.....	..	
1	..	13	..	..	..	2	2	1	..	4	3	68	76	Dyspepsia .....	..	
6	8	81	..	3	7	2	4	36	..	34	45	656	631	Accidents and diseases not classified.....	16	
13	27	167	10	21	26	32	17	62	15	62	96	1446	1475	TOTAL.....	46	

\* 2 Typhus. ++ Febricula    ++ 1 case removed to hospital and 2 dead    ¶ 2 Febricula.    ||| removed to hospital.

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	1	..	..	..	..	1	25	1	5	2
Measles .....	..	..	..	1	..	..	..	..	1	1	1	4	3
Whooping-cough.....	..	..	..	..	..	..	..	..	1	..	..	1	3
Scarlatina .....	1	2	1	..	..	1	..	..	2	..	1	8	40
Diarrhœa .....	1	1	1	..	..	..	1	..	1	1	..	6	7
Fever .....	1	..	a12	1	b1	c3	..	2	..	..	c2	22	11
Diseases of the Lungs ..	14	4	4	3	1	9	d10	..	11	9	3	58	46
Other causes.....	12	10	18	5	11	7	..	8	4	8	4	97	97
TOTAL NO. OF DEATHS.	29	17	36	10	13	20	11	10	20	24	11	201	209
TOTAL NO. OF BIRTHS.	41	38	25	16	15	29	25	21	23	39	24	296	264

a 5 Typhus.      b Typhoid      c Typhus      d 1 Inquest.      e 4 Females, aged 3 weeks, 6 months, 5 years, and 57 years respectively, and 1 Male aged 47 years.

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria .....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhœa.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	..Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....			..	
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN SEPTEMBER : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERETH Esq	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	4.340	.....	20						
Penketh	4.314	.....	22						
Royton	4.130	.....	21						
Eccles	4.075	.....	21						
Old Trafford..	4.009	.....	21						
Height of barometer cistern above sea level.....	130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.			
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.414	29.461	29.456	29.443	29.443	29.448			
Highest.....	29.851	29.858	29.832	29.379	29.937	29.463			
Lowest .....	28.860	28.866	28.863	28.434	28.968	28.536			
Range .....	0.991	0.992	0.969	0.915	0.969	0.932			
<b>Temperature.</b>									
Adopted Mean .....	50.4	51.8	50.5	49.1	50.8	48.4			
Range for Week .....	15.2	18.2	17.4	16.1	16.1	15.4			
Daily Range.....	9.4	7.4	7.5	6.3	6.9	7.2			
Maximum in Shade .....	58.1	60.7	57.7	56.7	9.7	60.0			
Minimum in Shade .....	42.9	42.5	40.3	40.6	43.6	40.6			
Temperature of Dew Point .....	46.5	46.0	45.6	45.3	46.5	45.2			
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.866	0.806	0.837	0.872	0.854	0.874			
Prevailing Winds .....		N,E	N,E	NE	E,NE	ENE			
Rain .....		0.780	0.683	1.235	0.744	1.253			
<b>Ozonometer.</b>									
Moffat .....		0.00	0.5	.....	0.5	.....			
Schonbein .....		0.00	.....	0.00	.....	2.1			

October 29, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

PL. IV.] WEEK ENDING SATURDAY, NOVEMBER 5, 1864. [No. 223.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on the 5th of November 1,414 new cases of disease were observed in connection with the various Charitable Institutions and Poor Law Unions: in the corresponding one of last year there were 1,597.

Taken as a whole the present return may be looked upon as decidedly satisfactory. The cases of Typhus Fever, which a fortnight ago proved so very general, fell last week from 14 to 8. These 8 cases are specially singled out as Typhus from among the 60 seizures of Continued Fever contained in the return.

Scarlet Fever appears once more to be on the decrease, the respective number of cases for the last three weeks being 20, 17, and 14.

In the last week in October 25 patients suffered from Small-pox, in the present return only 11 cases are reported.

Though the weather has of late become considerably colder we do not, as yet, observe any increase under Bronchitis and kindred chest affections, the respective numbers for the last two weeks being 237 and 230. In this, however, there is nothing unusual, inasmuch as a tolerably extended series of statistics has now demonstrated that a decrease in the mean temperature of the air is, though certainly not immediately, followed by an increase in the number of sufferers from chest affections.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 195 deaths were registered in the eleven districts from which we receive our returns. The births at the same time were numerous, amounting to 300.

On enquiring into the causes which especially contributed to these 195 deaths it is satisfactory to observe that none of the zymotic diseases proved at all excessive. Fever heads the list, but even from Fever there were 10 fewer deaths than in the preceding week, the respective numbers being 22 and 12.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 215.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 42·4°, at the Infirmary it was 44·5°, at Old Trafford 43·6°, and at Eccles 42·9. Thus the weather at these stations was somewhat milder than in the neighbourhood of London.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	3	..	..	..	3	1	1	..	..	..	1	..	..
Chicken-pox .....	..	..	..	..	2	..	2	..	..	..	..	..	2	..	..
Measles .....	..	1	..	1	4	..	6	..	..	..	..	1	..	..	..
Scarlatina .....	..	..	..	..	2	..	2	..	1	..	..	..	2	..	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	2	..	..	..	..	1
Croup .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	3	..	4	..	..	7	..	..	..	13	5
Dysentery .....	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	2	*2	†4	..	2	‡2	12	§9	3	..	1	¶1	2	8	..
Erysipelas .....	..	..	..	..	..	..	..	..	1	4	1	..	1	..	..
Rheumatism .....	1	1	..	..	3	..	5	..	8	29	3	3	3	..	..
Neuralgic Affections.....	..	..	..	..	..	..	..	..	3	7	..	..	..	..	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	17	..	16	..	..	..	1	..
Phthisis .....	..	..	1	..	1	..	2	5	2	25	3	1	3	..	2
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	4	3	3	5	7	2	24	23	..	43	4	5	5	12	14
Pleurisy and Pneumonia....	..	..	1	1	1	..	3	3	3	7	1	1	..	..	..
Skin Diseases.....	1	2	..	..	..	1	4	6	..	14	..	..	..	2	6
Dyspepsia .....	1	1	..	..	5	..	7	..	..	28	..	1	..	3	8
Accidents and diseases not classified.....	18	9	23	5	10	6	71	53	42	181	..	6	3	55	10
TOTAL.....	27	20	36	12	40	11	146	120	64	363	13	19	22	94	49

\* 1 Typhus and 1 Febricula, sent to hospital. † 1 Febricula at home, 1 Typhus sent to hospital. ‡ Febricula. § 5 Maculated

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.  
2) „ J. BROADBENT,  
3) „ EDWARD MEACHAM  
4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
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(9) } Mr. W. H. SUTCLIFFE,  
(10) } „ WILLIAM G. ROGERS,  
(11) } „ THOMAS LEEDS,  
(12) }

(13) Mr. H. RUN  
(14) Dr. WHITE  
(15) Mr. W. GOL  
(16) „ J. TEAL



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

week ending the 5th day of November, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.					
1,329 .....				477.....			646...		508.	2650.....			Area in Statute Acres.		
70,967. ....				68,209. ...			44,850..		21739	24,448 .....			Population in 1861.		
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28				
..	1	..	..	..	..	2	..	1	..	..	1	11	15	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	..	4	3	Chicken-pox .....	..
1	..	..	..	..	..	..	..	3	2	..	..	16	7	Measles .....	1
..	2	3	..	..	..	..	..	..	2	..	..	14	47	Scarlatina .....	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..
..	2	..	..	..	..	..	..	..	..	..	..	5	11	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	Croup .....	..
1	..	2	3	1	1	1	1	2	..	..	1	44	58	Diarrhoea .....	..
..	..	..	..	..	1	1	..	..	..	..	..	3	4	Dysentery .....	..
2	4	††7	..	†1	..	††4	..	1	2	1	..	60	49	Continued Fever ....	4
..	..	2	..	..	1	..	..	1	..	..	..	11	13	Erysipelas .....	..
1	..	9	1	..	..	3	..	3	..	4	7	81	81	Rheumatism .....	..
..	..	2	..	..	..	..	..	1	..	1	..	15	15	Neuralgic Affections ..	..
..	3	2	..	..	..	..	..	..	..	2	5	46	51	Constitutional Syphilis	..
1	..	6	..	..	..	..	2	1	..	2	..	55	59	Phthisis .....	4
..	1	..	..	..	..	..	..	..	..	..	1	5	10	Insanity .....	2
3	1	21	4	7	5	2	7	10	..	10	1	208	270	Bronchitis, Influenza, and Catarrh.....	7
1	..	2	..	..	..	..	..	..	..	1	..	22	10	Pleurisy & Pneumonia.	..
..	1	10	..	1	..	..	..	3	1	..	8	56	62	Skin Disease.....	..
..	..	11	..	..	2	1	4	2	4	3	3	78	53	Dyspepsia .....	..
4	6	79	1	6	10	7	2	40	2	39	54	679	777	Accidents and diseases not classified.....	21
14	21	156	9	16	20	21	16	68	13	63	81	1414	1597	TOTAL.....	42

|| 2 Typhus and 1 Typhoid. ¶ Typhoid. \*\* 1 sent to hospital. ++ 1 Typhus. †† 2 Febricula.

debited for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
 (18) Mr. M. O. LARMUTH,  
 (19) „ J. O. BRADBURY,  
 (20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
 (22) Dr. ALEX. WILSON,  
 (23) Mr. H. M. WILLIAMSON.  
 (24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
 (26) „ J.V.L.WESTMACOTT,  
 (27) „ JOHN HOLDEN,  
 (28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallswoth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	1	..	..	..	..	c4	..	5	1
Measles .....	..	..	..	..	..	..	..	..	3	..	1	4	3
Whooping-cough.....	..	..	..	..	1	1	..	..	..	..	..	2	4
Scarlatina.....	..	1	2	..	1	1	1	..	..	..	1	7	42
Diarrhoea .....	..	..	2	1	..	1	..	..	..	1	..	5	9
Fever .....	1	2	3	..	a2	..	a2	1	..	d1	..	12	6
Diseases of the Lungs ..	9	8	3	3	..	7	1	..	5	11	2	49	65
Other causes.....	14	12	20	8	12	68	11	10	4	12	..	111	90
TOTAL NO. OF DEATHS.	24	23	30	12	17	18	15	11	12	29	4	195	220
TOTAL NO. OF BIRTHS.	39	33	8	21	13	33	13	11	41	69	19	300	274

a 1 Typhus.      b 1 Inquest.      c Females, aged 6, 11, 22, and 26 years, respectively.      d Gastric.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL.	DISEASE.	5 Weeks ending 30th April.	4 Weeks ending 28th May.	4 Weeks ending 25th June.	TOTAL
6	4	6	16	.....Small-pox.....	51	42	30	123
15	26	31	72	..... Chicken-pox .....	11	9	10	30
16	12	17	45	..... Measles .....	57	54	50	161
35	35	16	86	.....Scarlatina.....	108	53	79	240
3	6	1	10	..... Diphtheria .....	1	..	..	1
102	74	49	225	.... Whooping-cough ....	71	29	27	127
6	5	3	14	.....Croup.....	6	3	31	10
595	543	1064	2202	.....Diarrhoea.....	150	121	18	409
4	1	5	10	.....Dysentery.....	15	15	15	45
..	..	1	1	..... Cholera .....	..	..	..	..
23	9	18	50	.....Erysipelas.....	23	22	38	83
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
27	25	24	76	..... Insanity .....	67	41	43	151
1169	724	622	2515	.Bronchitis and Catarrh..	1109	525	562	2196
18	8	2	28	..... Pleurisy .....	84	54	51	189
39	31	19	89	..... Pneumonia .....	..	..	..	..
8	7	2	17	.....Carbuncle.....	..	..	..	..
4914	3496	3709	12119	{ Accidents, and all other Diseases. }	5380	4099	4347	14326
6980	5006	5589	17575	..... TOTAL .....	7633	5067	5391	18091

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN OCTOBER : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERRETH Esq	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	2.829	.....	13						
Royton .....	2.800	.....	13						
Penketh ...	1.927	.....	12						
Eccles.....	1.910	.....	13						
Old Trafford..	1.903	.....	13						
Height of barometer cistern above sea level.....	130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.			
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	30.258	30.312	30.308	30.307	30.303	30.296			
Highest.....	30.459	30.504	30.443	29.995	30.558	30.080			
Lowest .....	29.954	29.950	29.924	29.495	30.054	29.560			
Range .....	0.505	0.554	0.524	0.500	0.504	0.520			
Temperature.									
Adopted Mean .....	44.5	43.6	42.9	42.6	42.6	42.7			
Range for Week .....	20.1	25.1	23.6	22.5	20.0	22.5			
Daily Range. ....	11.1	12.4	13.0	12.4	15.1	11.4			
Maximum in Shade .....	55.1	55.4	52.4	51.2	52.8	51.5			
Minimum in Shade .....	35.0	30.3	28.8	28.7	27.2	29.0			
Temperature of Dew Point .....	40.3	40.3	40.5	39.8	40.2	39.2			
Hygrometrical condition of the Atmosphere				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.846	0.880	0.912	0.896	0.912	0.872			
Prevailing Winds .....		N,E	N,E	NE	E,NE	ENE			
Rain .....		0.052	0.057	0.020	0.055	0.025			
Ozonometer.									
Moffat .....		0.00	0.14						
Schonbein .....		0.00		0.14	0.3	0.14			



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

Vol. IV.] WEEK ENDING SATURDAY, NOVEMBER 12, 1864. [No. 224.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 12th instant, 1,449 new cases of disease were observed in connection with the various Charitable Institutions and Poor Law Unions: in the preceding week there were 1,414, and in the corresponding one of last year 1,549.

There are two of the zymotic diseases, Small-pox and Scarlet Fever, in respect to which we observe a considerable increase; in Small-pox this increase amounts to 7 cases, and in Scarlet Fever to 14.

From Continued Fever there were 72 seizures; 7 of these are referred to as examples of Typhus, and 7 more as Typhoid Fever.

As the weather becomes colder the decrease under Diarrhoea is, as might be anticipated, sudden and striking; thus the cases fell from 47 to 25. On the other hand, Bronchitis and kindred affections of the chest rose from 230 to 278.

In our present return the number of sick paupers in the Manchester Poor Law Districts amounted to 212, in the corresponding week of 1862 to 471.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 215 deaths, or 20 more than in the preceding return, were registered in the eleven districts: in the corresponding weeks of the three last years the respective numbers were 266, 231, and 242. Thus the state of the public health may be looked upon as satisfactory.

The births were numerous, amounting to 323.

On turning to the causes of death we find a singular increase under Scarlet Fever. For several weeks the mortality from this affection steadily diminished, but last week, for some reason not readily explained, it again proved very fatal, no fewer than 25 persons falling victims to its attacks.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 307. Bronchitis and Pneumonia chiefly contributed to the increase in former weeks.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 37.5°, at the Royal Infirmary it was 40.1°, at Eccles 37.2, and at Old Trafford 36.6°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	1	1	..	1	2	..	5	1	..	..	1	..	..	1	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Measles .....	1	1	..	1	6	..	9	..	..	..	..	1	..	4	..
Scarlatina .....	..	..	2	..	2	4	8	..	..	..	3	..	3	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	2	..	3	..	..	5	1	..	..	5	2
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	*11	†1	1	5	2	1	21	16	‡4	..	..	§1	2	5	..
Erysipelas .....	1	..	..	..	..	..	1	2	..	1	1	..	..	..	..
Rheumatism .....	4	..	3	..	1	1	9	15	3	28	3	6	2	..	3
Neuralgic Affections .....	..	..	..	..	..	..	..	..	2	6	..	..	..	..	5
Constitutional Syphilis .....	..	..	1	..	..	..	1	6	..	13	..	..	..	..	..
Phthisis .....	..	1	..	1	1	..	3	5	..	29	4	1	2	1	4
Insanity .....	..	1	..	..	..	..	1	6	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	5	13	8	6	9	6	47	18	1	37	3	5	4	12	17
Pleurisy and Pneumonia....	4	..	1	2	..	..	7	..	..	4	1	2	2	..	..
Skin Diseases.....	..	1	1	..	..	..	2	12	..	14	1	..	1	4	11
Dyspepsia .....	..	2	..	..	3	..	5	..	..	16	..	3	1	5	4
Accidents and diseases not } classified..... }	22	13	20	7	5	22	89	42	37	112	1	7	2	60	11
TOTAL .....	49	35	37	23	34	34	212	123	47	266	19	26	19	98	57

\* 2 Typhoid sent to hospital.      † 3 Typhus sent to hospital.      ‡ 2 Typhus, 1 Typhoid, and 1 Febricula.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.  
2) „ J. BROADBENT,  
3) „ EDWARD MEACHAM  
4) Dr. BRADDON,
- (5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,
- (9) } Mr. W. H. SUTCLIFFE,  
(10) } „ WILLIAM G. ROGERS,  
(11) } „ THOMAS LEEDS,  
(12) }
- (13) Mr. H. RUNNELL,  
(14) Dr. WHITEHEAD,  
(15) Mr. W. GOLDING,  
(16) „ J. TEAL



SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 12th day of November, 1864.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
..... 1,329 .....					..... 477. ....			.. 646. ...		508.	..... 2650.....				Area in Statute Acres.		
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739	..... 24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's										
16	17	18	19	20	21	22	23	24	25	26	27	28					
..	..	..	1	..	2	..	4	3	..	..	..	..	18	11	Small-pox .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	Chicken-pox .....	..	
..	..	..	..	..	..	..	..	..	1	..	..	..	15	16	Measles .....	..	
..	..	1	6	..	2	..	..	..	..	2	2	..	28	44	Scarlatina .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	2	3	..	..	..	..	..	..	..	..	..	6	15	Whooping-cough ....	..	
..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	Croup .....	..	
2	..	..	..	1	..	1	..	1	..	2	..	..	23	51	Diarrhoea .....	..	
1	..	..	1	..	..	..	..	..	..	..	..	..	2	6	Dysentery .....	..	
1	2	1	7	..	3	..	¶1	..	..	2	§2	**4	72	55	Continued Fever ....	5	
..	..	..	5	..	..	..	..	1	..	..	..	..	11	15	Erysipelas .....	..	
1	..	..	6	1	2	2	2	..	4	1	3	4	95	96	Rheumatism .....	..	
..	..	..	1	..	..	..	..	..	..	..	..	..	14	20	Neuralgic Affections ..	..	
..	..	1	4	..	..	..	..	..	..	..	1	5	32	51	Constitutional Syphilis	..	
1	..	..	6	..	..	..	1	..	1	..	3	1	62	48	Phthisis .....	4	
..	..	..	..	..	..	..	..	..	..	..	..	..	7	5	Insanity .....	..	
6	7	4	28	5	2	4	2	5	8	3	16	14	250	290	Bronchitis, Influenza, and Catarrh.....	13	
..	1	..	4	..	..	..	1	..	1	..	1	3	27	13	Pleurisy & Pneumonia.	..	
1	..	6	4	..	..	..	..	..	2	..	..	10	68	80	Skin Disease.....	..	
2	4	..	4	..	..	2	1	4	4	3	4	5	69	78	Dyspepsia .....	..	
8	4	5	88	1	10	10	10	6	33	3	47	58	648	649	Accidents and diseases not classified.....	28	
3	18	20	169	8	21	19	22	20	54	16	79	104	1449	1549	TOTAL.....	52	

§ Typhoid.      || Febricula.      ¶ Sent to hospital      \*\* Typhus.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
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Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	1	2	2	2	2	2	2	1	2	1	1	4	2
Measles.....	2	2	1	2	2	2	2	2	2	1	1	8	4
Whooping-cough.....	2	3	5	2	3	5	2	2	2	3	2	25	30
Scarlatina.....	2	2	2	2	1	1	2	1	1	2	2	16	5
Diarrhoea.....	2	2	6	2	2	2	1	1	2	2	2	16	8
Fever.....	11	13	3	4	2	6	6	10	3	15	4	65	57
Diseases of the Lungs ..	10	5	16	8	10	25	9	10	5	12	3	93	132
Other causes.....	24	25	31	12	18	17	18	14	11	35	10	215	242
TOTAL No. OF DEATHS.	42	25	18	13	13	44	41	21	24	60	22	323	352
TOTAL No. OF BIRTHS.													

a 1 Inquest.      b 1 Croup.      c Typhus.      d 1 Typhoid.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, Dr. R. D. Thomson,  
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and SALFORD.  
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6	4	6	16	..... Small-pox.....	51	42	30	123
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8	7	2	17	..... Pleurisy .....	..	..	..	..
4914	3496	3709	12119	..... Pneumonia .....	5380	4099	4347	14326
6980	5006	5589	17575	..... Carbuncle.....	7633	5067	5391	18091
				{ Accidents, and all other Diseases. }				
				..... TOTAL .....				

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN OCTOBER :				Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches.	Wet Days.								
Castleton Moor	2.829	.....	13						
Royton .....	2.800	.....	13						
Penketh ....	1.927	.....	12						
Eccles.....	1.910	.....	13						
Old Trafford..	1.903	.....	13						
Height of barometer cistern above sea level.....				130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.195	30.180	30.187	30.169	30.185	30.166
Highest.....				30.624	30.600	30.602	30.154	30.712	30.208
Lowest .....				29.590	29.532	29.548	29.134	29.654	29.200
Range .....				1.034	1.068	1.054	1.020	1.058	1.008
Temperature.				40.1	36.6	37.2	37.8	36.2	37.5
Adopted Mean .....				20.3	20.5	19.7	19.8	23.5	18.1
Range for Week .....				12.3	14.3	14.0	13.1	14.7	11.6
Daily Range.....				50.5	47.5	46.5	45.0	47.3	44.1
Maximum in Shade .....				30.2	27.0	26.8	26.2	23.8	26.0
Minimum in Shade .....				35.5	33.2	33.6	33.6	33.5	31.6
Temperature of Dew Point .....				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Hygrometrical condition of the Atmosphere.				0.840	0.916	0.872	0.846	0.902	0.790
Degree of Humidity (Saturation—1,000).....									
Prevailing Winds .....				SE, NE	SE, NE	N, E	NE	NE	SE, NE
Rain .....				0.016	0.016	0.020	0.070	0.127	0.058
Ozonometer.									
Moffat .....				0.00	0.00	0.00	0.00	0.00	0.8
Schonbein .....									

November 12, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, NOVEMBER 19, 1864. [No. 225.

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 19th instant, 1,538 new cases of disease occurred in connection with the public Charitable Institutions and Poor Law Unions: in the preceding week there were 1,449, and in the corresponding one of last year 1,703.

The most important feature in the present return is the marked increase under Small-pox. In the two preceding weeks the respective numbers were 11 and 18; last week it was 33. Moreover the disorder appears to have been met with in various quarters of the town. Thus, in the Manchester Poor Law District, there were 8 cases, and in the Workhouse 4. In Hulme there were 7, at the Ardwick and Ancoats Dispensary 3, and at the Chorlton Union Workhouse 3 more. It is much to be feared that the attention which was bestowed on vaccination at the time the late epidemic of Small-pox was prevalent among us is not at present observed, and consequently the disorder, which never entirely disappeared, is once more lighted up.

Another of the zymotic diseases also (Continued Fever) is once more on the increase, the respective number of cases for the three last weeks being 60, 72, and 86. Of this number 11 were cases of Typhus.

Under Bronchitis and kindred affections of the chest we find an increase of 11 cases.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 248 deaths were registered in the eleven districts from which we receive our returns: in the two preceding weeks there were respectively 195 and 215. Thus the increase in the mortality is considerable.

On turning to the causes of death we find a remarkable decrease under Diarrhœa. In the preceding return there were 25 deaths from this disorder, last week only 5.

The increase under Fever, likewise, amounted to 10.

The Registrar of the Greengate District refers to an inquest as a case of Hydrophobia, the subject of which was bitten by a dog in the year 1856.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 331.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was  $45.5^{\circ}$ , at the Royal Infirmary it was  $45.9^{\circ}$ , at Eccles  $44.4^{\circ}$ , and at Old Trafford  $44.0^{\circ}$ .

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	1	*3	..	..	4	..	8	4	2	..	..	..	1	1	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	3	3	1	7	..	..	..	1	..	1	2	..
Scarlatina .....	..	..	..	..	1	3	4	1	2	..	1	..	..	1	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	2	..	2	..	..	..	..	..	..	1	2
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	..	..	..	1	1	3	..	..	7	..	1	..	2	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	*3	1	†6	2	2	3	17	21	‡4	..	2	..	1	6	..
Erysipelas .....	..	..	2	..	..	..	2	3	..	..	1	1	1	..	..
Rheumatism .....	2	..	1	..	..	1	4	14	1	33	5	1	4	..	1
Neuralgic Affections .....	..	1	1	1	..	1	4	..	2	..	..	..	..	..	..
Constitutional Syphilis .....	..	..	..	..	..	1	1	4	..	4	..	1	1	..	..
Phthisis .....	..	..	4	1	2	..	7	2	2	31	4	3	2	..	1
Insanity .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	10	8	6	6	5	9	44	20	..	49	8	5	4	10	15
Pleurisy and Pneumonia....	1	..	..	1	1	..	3	..	..	5	1	..	3	..	1
Skin Diseases.....	..	1	..	..	..	..	1	13	..	19	..	1	..	6	9
Dyspepsia .....	1	1	..	..	..	..	2	..	..	16	..	..	..	4	7
Accidents and diseases not } classified..... }	38	10	29	12	7	19	115	64	35	139	3	8	6	43	18
TOTAL .....	57	25	49	26	28	39	224	146	48	303	26	21	24	76	58

\* Sent to hospital.      † 2 Febricula.      ‡ 3 Typhus and 1 Typhoid.      § 2 Typhus.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.

2) „ J. BROADBENT,

3) „ EDWARD MEACHAM

4) Dr. BRADDON,
- (5) Dr. JOHN MEDD,

(6) „ LEDWARD,

(7) Mr. A. PHILIPPS,

(8) Dr. GEORGE REED,
- (9) } Mr. W. H. SUTCLIFFE,

(10) } „ WILLIAM G. ROGERS,

(11) } „ THOMAS LEEDS,

(12) }
- (13) Mr. H. RUNC

(14) Dr. WHITEH

(15) Mr. W. GOLL

(16) „ J. TEALE



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 19th day of November, 1864.

SALFORD.				HULME.			CHORLTON.		ARD-WICK	PENDLETON AND PENDLEBURY.					DEATHS.
... 1,329 .....				.... 477. ....			.. 646. ...		508.	..... 2650.....			Area in Statute Acres.		
... 70,967. ....				.. 68,209. ..			.. 44,850 ..		21739	.....24,448 .....			Population in 1861.		
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS									Corresponding Week last Year.	DISEASES.	
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.			
17	18	19	20	21	22	23	24	25	26	27	28				
2	..	..	..	2	1	4	..	2	..	3	3	33	9	Small-pox .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Chicken-pox .....	..
1	..	..	..	1	..	2	..	2	..	..	..	17	2	Measles .....	..
..	..	7	..	1	..	..	..	..	..	1	..	19	65	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	2	..	..	..	..	..	..	..	..	..	9	20	Whooping-cough ....	..
..	..	..	..	..	..	1	..	..	..	..	..	1	1	Croup .....	..
..	..	2	1	..	..	..	..	1	..	..	1	25	68	Diarrhoea .....	..
..	..	1	..	..	..	..	..	..	..	..	..	1	7	Dysentery .....	..
1	5	8	..	1	2	7	1	2	..	13	13	86	71	Continued Fever ....	3
1	..	4	..	..	..	1	..	..	..	..	..	14	8	Erysipelas .....	..
1	1	7	1	..	2	2	4	3	2	4	7	99	84	Rheumatism .....	..
1	..	2	..	..	..	..	..	..	..	..	..	11	17	Neuralgic Affections ..	..
..	1	5	..	..	..	..	..	..	..	2	3	24	32	Constitutional Syphilis	..
..	..	9	..	..	..	1	2	..	..	4	1	69	77	Phthisis .....	7
..	..	..	..	..	..	..	..	..	..	..	6	6	12	Insanity .....	1
4	1	34	5	2	6	6	6	9	6	13	8	266	299	Bronchitis, Influenza, and Catarrh.....	11
..	..	3	..	..	..	..	..	2	..	..	4	22	12	Pleurisy & Pneumonia.	3
..	6	5	..	..	..	..	3	4	..	2	8	77	78	Skin Disease.....	..
..	..	4	..	..	6	..	1	1	3	3	2	49	61	Dyspepsia .....	..
7	4	79	..	7	6	3	10	41	3	42	74	710	778	Accidents and diseases not classified.....	28
18	18	172	7	14	23	27	27	67	14	77	120	1538	1703	TOTAL.....	53

|| Febricula.

¶ Typhus

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	1	..	..	..	..	..	1	..	..	1	..	3	2
Measles .....	1	..	..	..	..	..	..	1	..	..	..	2	3
Whooping-cough.....	..	..	1	..	1	4	..	..	..	..	..	6	7
Scarlatina .....	1	..	..	1	1	4	3	..	..	1	..	11	35
Diarrhoea .....	1	1	..	..	1	..	1	..	..	1	..	5	8
Fever .....	..	2	..	a1	a1	1	4	..	1	d3	..	13	7
Diseases of the Lungs ..	11	10	5	3	..	12	12	..	7	..	6	66	66
Other causes.....	20	11	17	8	11	69	8	e11	15	28	4	142	121
TOTAL NO. OF DEATHS.	35	24	23	13	15	30	29	12	23	34	10	248	249
TOTAL NO. OF BIRTHS.	45	43	10	25	23	25	14	12	24	39	10	270	316

a Typhus.      b 1 Inquest and 1 case of Hydrophobia, bitten by a dog in 1856.      c 2 Inquests.      d 1 Typhus

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th August	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	TOTAL.	DISEASE.	4 Weeks ending 27th August.	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	TOTAL
2	4	5	11	.....Small-pox.....	26	35	43	104
13	28	11	52	.....Chicken-pox.....	1	5	8	14
39	64	64	167	.....Measles.....	66	85	64	215
41	42	50	133	.....Scarlatina.....	70	109	73	252
7	2	1	10	.....Diphtheria.....	1	3	..	4
65	55	58	178	....Whooping-cough....	18	8	13	39
2	2	3	7	.....Croup.....	3	2	..	5
1358	1022	428	2808	.....Diarrhoea.....	578	336	167	1081
3	8	5	16	.....Dysentery.....	40	15	12	67
..	..	1	1	.....Cholera.....	..	..	..	..
18	34	18	70	.....Erysipelas.....	25	24	37	86
..	..	..	..	....Puerperal Fever....	..	..	..	..
16	12	10	38	.....Insanity.....	46	57	52	155
462	721	741	1924	..Bronchitis and Catarrh..	493	653	738	1884
10	14	10	34	.....Pleurisy.....	48	76	75	199
23	36	31	90	.....Pneumonia.....	..	..	..	..
3	4	1	8	.....Carbuncle.....	..	..	..	..
3652	4425	3867	11944	{ Accidents, and all other Diseases. }	4140	5172	4195	13507
5714	6473	5304	17491	.....TOTAL.....	5555	6580	5477	17612

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN OCTOBER : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	2.829	.....	13						
Royton .....	2.800	.....	13						
Penketh .....	1.927	.....	12						
Eccles.....	1.910	.....	13						
Old Trafford..	1.908	.....	13						
Height of barometer cistern above sea level.....				120 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.169	29.142	29.137	29.127	29.120	29.130
Highest.....				29.684	29.679	29.680	29.227	29.764	29.214
Lowest.....				28.528	28.566	28.516	28.100	28.630	28.212
Range .....				1.156	1.113	1.164	1.127	1.134	1.002
Temperature.									
Adopted Mean .....				45.9	44.0	44.4	43.6	44.0	43.1
Range for Week .....				18.0	21.0	18.8	17.6	18.0	16.8
Daily Range.....				10.3	11.9	10.3	9.9	10.7	8.7
Maximum in Shade .....				53.0	53.0	51.6	51.0	51.6	49.0
Minimum in Shade .....				35.0	32.0	32.8	33.4	33.0	32.2
Temperature of Dew Point .....				42.0	40.9	39.9	40.5	41.1	39.6
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.864	0.792	0.842	0.892	0.793	0.868
Prevailing Winds .....					NE,SE	SE	SE	SE	SW,SE
Rain .....					1.308	1.250	1.680	1.296	1.868
Ozonometer.									
Moffat .....					0.00	1.00	0.00	0.00	.....
Schonbein .....					0.00	0.00	1.00	3.1	1.3

November 19, 1864.

JOHN HEAP, Royton, Oldham.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association



### WEEKLY RETURN.

PL. IV.] WEEK ENDING SATURDAY, NOVEMBER 26, 1864. [No. 226.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 26th instant, 1,551 new cases of disease occurred in connection with the various Charitable Institutions and Poor Law Unions: in the corresponding week of last year there were 1,726.

Small-pox still continues prevalent, the number of seizures amounting to 32, of which 11 are entered in the Hulme returns. At the Chorlton Dispensary there were 3 new cases, and Mr. Rayner, in referring to them, says that he "has altogether 7 cases under treatment, all met with in the same locality,—in the neighbourhood of Chester Street."

During the last three weeks, those in fact in which there has been a decided increase under Small-pox, Scarlet Fever has considerably subsided, the respective numbers in the three last returns being 28, 19, and 13.

Under Rheumatism, including Rheumatic Fever, we find an increase. In District III. of the Royal Infirmary there were 10 cases. In referring to this disorder in this district Mr. Thomas Leeds remarks that in 3 out of 6 cases of acute Rheumatism, which came under his care between the 18th and 26th, pericarditis was present on the fifth day of the disease.

It is satisfactory to find that there were 32 fewer cases of Continued Fever than in our preceding returns; still, 7 of them are referred to as examples of Typhus and 6 of Typhoid Fever.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 234 deaths were registered in the eleven districts from which we receive our returns: in the preceding week there were 248, and in the corresponding one of last year 250.

Five of the deaths were due to Small-pox; 2 of them occurred in the Chorlton District, and, according to the Registrar, it appears doubtful whether in either case vaccination had ever been performed.

There were 12 deaths from Scarlet Fever and 10 from Continued Fever.

The Registrar of the London Road District refers to a case of coesaream operation, in which the mother died after three days, though the life of the child was saved.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 159.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 42.1°, at the Royal Infirmary it was 43.4°, at Eccles 43.0, and at Old Trafford 42.4°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN.		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox .....	..	*1	..	..	4	..	5	1	3	..	..	..	..	2	..	
Chicken-pox .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	
Measles .....	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	
Scarlatina .....	..	..	3	..	..	..	3	1	1	..	1	..	..	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	2	..	2	..	..	..	..	..	..	1	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	..	..	..	..	3	..	3	..	..	..	..	..	..	3	..	
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever.....	6	†1	†2	†1	..	..	10	10	‡6	..	2	2	2	3	..	
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism .....	4	4	1	1	2	2	14	21	3	21	4	7	10	..	..	
Neuralgic Affections.....	..	..	..	..	..	1	1	..	3	3	..	1	1	..	..	
Constitutional Syphilis .....	..	..	..	..	..	1	1	7	..	8	..	1	..	1	..	
Phthisis .....	1	1	1	2	2	..	7	7	1	21	3	3	1	..	..	
Insanity .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	5	8	5	5	7	8	38	26	..	69	4	5	6	6	1	
Pleurisy and Pneumonia....	..	1	..	1	..	1	3	1	1	8	2	2	1	..	..	
Skin Diseases.....	1	..	..	..	..	..	1	11	1	20	..	..	..	6	..	
Dyspepsia .....	..	..	1	..	..	2	3	..	..	42	..	..	..	5	1	
Accidents and diseases not classified.....	33	6	18	9	9	17	92	48	29	237	1	3	7	41	1	
TOTAL .....	50	22	31	19	31	32	185	133	48	429	18	24	28	69	5	

\* Sent to hospital.

† 1 Febricula.

‡ 1 Typhus.

§ 3 Typhus and 3 Typhoid.

Medical Officers to whom the Assoc

1) Mr. R. M. MANN.  
2) " J. BROADBENT,  
3) " EDWARD MEACHAM  
4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) " LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) } Mr. W. H. SUTCLIFFE,  
(10) } " WILLIAM G. ROGERS,  
(11) } " THOMAS LEEDS,  
(12) }

(13) Mr. H. R.  
(14) Dr. WHI  
(15) Mr. W. G.  
(16) " J. TI



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 26th day of November, 1864.

SALFORD.					HULME.			CHORLTON.		ARD-WICK	PENDLETON AND PENDLEBURY.						DEATHS.	
..... 1,329 .....					..... 477 .....			... 646 ...		508.	..... 2650 .....				Area in Statute Acres.			
..... 70,967. ....					... 68,209. ...			.. 44,850 ..		21739	..... 24,448 .....				Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Greengate.	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.			
16	17	18	19	20	21	22	23	24	25	26	27	28						
1	..	1	1	..	4	5	2	..	3	1	1	1	32	11	Small-pox .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	Chicken-pox .....	..		
..	..	..	..	..	..	..	2	2	1	3	1	..	15	18	Measles .....	..		
..	..	..	3	..	..	..	..	..	1	..	2	..	13	61	Scarlatina .....	2		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	1	4	..	..	..	..	..	..	..	..	..	8	22	Whooping-cough ....	..		
..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	Croup .....	..		
3	1	..	..	2	1	..	..	..	3	1	..	3	25	55	Diarrhoea .....	1		
3	..	..	..	..	..	..	..	..	..	..	..	..	3	3	Dysentery .....	..		
1	11	12	15	..	11	..	**6	..	..	..	1	12	54	55	Continued Fever ....	6		
..	..	..	1	..	1	..	..	..	..	..	..	1	3	18	Erysipelas .....	..		
2	..	..	8	..	2	2	2	1	3	1	3	2	107	88	Rheumatism .....	..		
..	..	..	2	..	..	..	..	..	..	..	..	..	14	25	Neuralgic Affections ..	..		
..	..	2	3	..	1	..	..	..	..	..	1	..	28	52	Constitutional Syphilis	..		
..	..	1	6	..	..	..	1	..	1	1	2	1	58	51	Phthisis .....	7		
..	1	2	..	..	..	..	..	..	..	..	..	5	8	4	Insanity .....	..		
4	6	3	36	4	4	5	2	5	6	3	11	6	263	267	Bronchitis, Influenza, and Catarrh .....	10		
..	..	..	1	..	..	..	..	..	..	..	1	..	21	12	Pleurisy & Pneumonia.	..		
..	..	6	7	..	..	..	..	1	1	..	..	8	65	84	Skin Disease .....	1		
..	..	..	13	..	..	2	2	3	1	..	4	4	93	74	Dyspepsia .....	..		
5	5	4	86	..	8	12	3	5	36	1	41	62	739	823	Accidents and diseases not classified .....	21		
19	14	22	176	6	22	26	21	17	56	11	68	95	1551	1726	TOTAL .....	48		

|| Typhoid.

¶ 2 Typhoid.

\*\* 2 cases sent to hospital.

++ Typhus

is indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres ponding week last year.
Small Pox .....	..	..	..	2	..	..	..	..	e2	..	1	5	2
Measles .....	2	2	..	1	..	..	..	..	..	1	3	9	1
Whooping-cough.....	..	..	..	..	..	2	..	1	..	..	..	2	4
Scarlatina .....	..	5	2	..	1	2	..	1	..	1	..	12	39
Diarrhoea .....	..	..	..	..	..	..	..	1	1	1	..	2	5
Fever .....	1	..	a2	..	..	..	2	e2	..	f2	1	10	19
Diseases of the Lungs ..	15	9	6	4	..	14	4	..	5	..	2	59	62
Other causes.....	14	14	13	11	10	b15	6	d12	4	27	9	135	118
TOTAL NO. OF DEATHS.	32	30	23	18	11	33	12	15	12	32	16	234	250
TOTAL NO. OF BIRTHS.	37	41	23	16	12	31	7	12	27	57	17	280	348

a Typhus.      b 2 Inquests and 1 Croup.      c 1 Typhus.      d 2 Croup.      e Aged 36, and 3 years respectively, doubtful whether either had been vaccinated.      f 1 Typhoid.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th August	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	TOTAL.	DISEASE.	4 Weeks ending 27th August.	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	TOTAL
2	4	5	11	.....Small-pox.....	26	35	43	104
13	28	11	52	.....Chicken-pox.....	1	5	8	14
39	64	64	167	.....Measles.....	66	85	64	215
41	42	50	133	.....Scarlatina.....	70	109	73	252
7	2	1	10	.....Diphtheria.....	1	3	..	4
65	55	58	178	....Whooping-cough....	18	8	13	39
2	2	3	7	.....Croup.....	3	2	..	5
1358	1022	428	2808	.....Diarrhoea.....	578	336	167	1081
3	8	5	16	.....Dysentery.....	40	15	12	67
..	..	1	1	.....Cholera.....	..	..	..	..
18	34	18	70	.....Erysipelas.....	25	24	37	86
..	..	..	..	....Puerperal Fever....	..	..	..	..
16	12	10	38	.....Insanity.....	46	57	52	155
462	721	741	1924	..Bronchitis and Catarrh..	493	653	738	1884
10	14	10	34	.....Pleurisy.....	48	76	75	199
23	36	31	90	.....Pneumonia.....	..	..	..	..
3	4	1	8	.....Carbuncle.....	..	..	..	..
3652	4425	3867	11944	{ Accidents, and all other Diseases. }	4140	5172	4195	13507
5714	6473	5304	17491	.....TOTAL.....	5555	6580	5477	17612

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN OCTOBER : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. REYNOLDS Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	2.829	.....	13						
Royton .....	2.800	.....	13						
Penketh .....	1.927	.....	12						
Eccles.....	1.910	.....	13						
Old Trafford..	1.908	.....	13						
Height of barometer cistern above sea level.....	130 ft.	123 ft.	118ft.	522 ft.	39 ft.	475 ft.			
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.387	29.394	29.379	29.326	29.373	29.372			
Highest.....	29.714	29.720	29.718	29.252	29.808	29.344			
Lowest.....	28.634	28.636	28.644	28.222	28.730	28.240			
Range .....	1.080	1.084	1.074	1.030	1.080	1.104			
Temperature.									
Adopted Mean .....	43.4	42.4	43.0	41.2	42.5	40.4			
Range for Week .....	15.3	17.0	17.6	17.7	22.4	15.7			
Daily Range.....	6.7	8.6	7.6	7.8	7.9	5.6			
Maximum in Shade .....	51.6	52.0	50.6	50.0	51.2	48.5			
Minimum in Shade .....	36.3	35.0	33.0	32.3	28.8	32.8			
Temperature of Dew Point .....	40.1	39.7	36.8	39.1	39.4	38.6			
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.875	0.896	0.792	0.913	0.888	0.936			
Prevailing Winds .....		S	S	S	S, SW	S, SW			
Rain .....		1.301	1.341	1.535	1.036	1.533			
Ozonometer.									
Moffat .....		0.57	0.70	0.00	.....	.....			
Schonbein .....		0.43	0.00	1.32	3.93	0.50			

November 26, 1864.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, DECEMBER 3, 1864.

[No. 227.]

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 3rd of December, 1,664 new cases of disease were observed by the medical officers connected with the various Charitable Institutions and Poor Law Unions: in the preceding week there were 1,551, and in the corresponding one of last year 1,637.

Among the zymotic diseases Small-pox continues very prevalent, the seizures amounting to 28, 7 of which were met with in Hulme.

The Scarlet Fever cases rose from 13 to 16; of these 16, 6 were patients at the Salford Dispensary.

Of 57 cases of Continued Fever no fewer than 13 proved examples of Typhus, and 2 of Typhoid Fever. The Typhus cases were chiefly met with in the Manchester Poor Law Districts. Thus 2 were observed by Mr. Mann in the St. Peter's District, and 5 more by Mr. Broadbent in the St. Andrew's; all of which were sent to the Hospital. The remaining cases occurred at the Royal Infirmary, at the Chorlton Union Workhouse, and at the Salford Workhouse.

Bronchitis and kindred affections of the chest, doubtless in consequence of the continued mildness of the weather, has not increased to the extent usual at this season of the year,—for the three last weeks the respective numbers have been 288, 284, and 277.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 236 deaths were registered in the eleven districts from which our returns are derived: in the two preceding weeks the respective numbers were 248 and 234. Six of the deaths were due to Small-pox, and 11 to Scarlet Fever.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 86. Scarlet Fever is said to be the most fatal of the zymotic diseases there at the present time. The death of a girl, aged six, who was suffocated by a glass bead passing into her windpipe, is specially referred to.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 43.4°, at the Royal Infirmary it was 41.4°, at Eccles 41.2°, and at Old Trafford 43.3°. In the neighbourhood of London the range of temperature for the week was 23.5°; at the Royal Infirmary it was only 16.8°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALES

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC

*New Cases of Disease coming under Treatment*

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.					CHILDREN.		
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	1	1	..	2	..	4	2	3	..	..	1	3	..	..
Chicken-pox .....	1	..	..	..	1	..	2	..	..	..	..	..	..	2	..
Measles .....	..	..	2	..	1	2	5	..	..	..	..	..	..	..	3
Scarlatina .....	..	2	1	..	..	..	3	..	..	..	1	1	2	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	2	..	2	..	..	..	..	..	..	1	1
Croup .....	..	..	..	..	1	..	1	..	..	..	..	..	..	2	..
Diarrhoea.....	1	..	..	2	3	1	7	..	..	6	..	..	1	3	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	*7	†8	‡4	..	..	1	20	6	§3	..	3	2	1	4	..
Erysipelas .....	2	..	..	1	..	..	3	..	..	..	..	..	..	..	..
Rheumatism .....	2	1	1	..	5	1	10	12	2	35	2	1	6	2	..
Neuralgic Affections.....	..	..	..	..	..	1	1	..	2	7	1	..	..	..	2
Constitutional Syphilis .....	..	..	..	..	..	..	..	7	..	8	..	..	..	..	1
Phthisis .....	..	..	..	1	..	..	1	4	1	14	5	1	1	1	4
Insanity .....	..	..	..	1	..	..	1	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	10	7	4	3	10	6	40	29	1	33	2	2	9	7	21
Pleurisy and Pneumonia.....	..	..	..	..	2	..	2	1	1	2	1	1	2	..	2
Skin Diseases.....	..	4	2	..	..	..	6	11	..	12	1	2	..	4	19
Dyspepsia .....	..	..	..	..	7	..	7	..	..	21	..	3	..	2	20
Accidents and diseases not classified.....	28	21	14	5	3	9	80	43	47	350	5	3	5	38	29
TOTAL .....	51	44	29	13	37	21	195	117	60	488	21	17	30	68	97

\* 2 Typhus Sent to hospital.

† 5 Typhus sent to hospital; 2 Febricula and 1 Typhoid at home.

‡ 3 Febricula.

*Medical Officers to whom the Association*

- 1) Mr. R. M. MANN.
- 2) „ J. BROADBENT,
- 3) „ EDWARD MEACHAM
- 4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,
- (6) „ LEDWARD,
- (7) Mr. A. PHILIPPS,
- (8) Dr. GEORGE REED,

- (9) Mr. W. H. SUTCLIFFE,
- (10) „ WILLIAM G. ROGERS,
- (11) „ THOMAS LEEDS,
- (12)

- (13) Mr. H. RUNNELL,
- (14) Dr. WHITEHEAD,
- (15) Mr. W. GOLD,
- (16) „ J. TEAL



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 3rd day of December, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					
1,329 .....				477 .....			646 ..		508.	2650 .....				Area in Statute Acres.	
70,967. ....				68,209. ..			44,850..		21739	24,448 .....				Population in 1861.	
PUBLIC INSTITUTIONS.				POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	2	..	..	4	3	..	..	2	..	1	3	28	5	Small-pox .....	1
..	..	..	..	..	..	..	..	..	..	..	..	4	..	Chicken-pox .....	..
..	..	..	..	..	..	1	..	2	..	..	..	11	7	Measles .....	1
..	..	6	..	..	..	..	..	1	..	..	..	16	60	Scarlatina .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	5	..	..	..	..	..	..	..	..	..	11	20	Whooping-cough ....	1
..	..	..	..	..	..	..	..	..	..	..	..	3	3	Croup .....	1
..	..	..	1	1	..	..	..	2	..	..	3	32	43	Diarrhoea .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	5	Dysentery .....	..
1	3	5	..	..	..	2	1	..	..	..	**3	57	52	Continued Fever ....	3
..	..	2	..	..	2	..	..	..	..	..	..	7	7	Erysipelas .....	..
..	2	9	1	1	..	1	2	..	..	4	2	95	85	Rheumatism .....	..
1	..	3	..	..	..	..	..	..	..	..	..	18	19	Neuralgic Affections ..	..
..	1	4	..	..	..	..	..	..	..	..	6	27	35	Constitutional Syphilis	..
1	1	7	1	..	..	..	1	..	..	1	1	45	63	Phthisis .....	6
..	2	..	..	..	..	..	..	..	..	..	2	6	11	Insanity .....	1
7	2	32	5	5	6	3	5	13	3	14	5	256	291	Bronchitis, Influenza, and Catarrh .....	8
..	1	2	..	..	..	..	..	1	..	..	5	21	10	Pleurisy & Pneumonia.	1
..	6	9	..	..	..	1	..	3	1	1	10	86	80	Skin Disease.....	..
..	..	12	..	4	3	..	2	..	2	3	1	82	76	Dyspepsia .....	..
3	9	77	..	5	5	2	6	36	7	43	62	859	765	Accidents and diseases not classified .....	23
13	29	173	8	20	19	10	17	60	13	67	103	1664	1637	TOTAL.....	53

typhus and 1 Typhoid.

|| 1 Typhus.

¶ Febricula.

\*\* Typhus.

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) J. O. BRADBURY,  
(20) W. B. STOTT,

(21) Mr. JOHN SMITH,  
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(24) JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) J. V. L. WESTMACOTT,  
(27) JOHN HOLDEN,  
(28) J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	..	1	..	61	..	1	..	22	..	6	1
Measles .....	..	1	..	1	..	..	..	..	..	1	..	7	2
Whooping-cough.....	..	..	..	..	..	3	..	..	..	1	..	4	3
Scarlatina .....	..	..	1	..	..	4	1	3	..	1	1	11	47
Diarrhoea .....	..	1	1	..	..	2	1	1	1	1	f1	9	6
Fever .....	3	1	..	..	a1	1	..	..	d2	..	..	8	13
Diseases of the Lungs ..	17	9	3	8	..	11	7	..	4	5	4	68	50
Other causes.....	12	14	17	8	13	e13	5	15	6	17	3	123	122
TOTAL NO. OF DEATHS.	33	26	22	18	14	35	14	21	13	29	11	236	244
TOTAL NO. OF BIRTHS.	59	36	8	13	9	35	12	18	36	62	24	312	298

a Typhus. b Female aged 14 years, vaccinated when a month old c 3 Inquests and 1 Croup. d 1 Typhus, aged 61 years. e Aged 3 and 19 years respectively, f Male aged 46 years.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL.	DISEASE.	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL
4	5	4	13	.....Small-pox.....	35	43	94	172
23	11	21	60	.....Chicken-pox.....	5	8	6	19
64	64	115	243	.....Measles.....	85	64	63	212
42	50	53	145	.....Scarlatina.....	109	73	74	256
2	1	2	5	.....Diphtheria.....	3	..	..	3
55	58	56	169	.....Whooping-cough....	8	13	23	49
2	3	2	7	.....Croup.....	2	..	4	6
1022	428	443	1893	.....Diarrhoea.....	336	167	117	620
8	5	4	17	.....Dysentery.....	15	12	9	36
..	1	..	1	.....Cholera.....	..	..	..	..
34	18	26	78	.....Erysipelas.....	24	37	39	100
..	..	..	..	.....Puerperal Fever....	..	..	..	..
12	10	12	34	.....Insanity.....	57	52	26	135
721	741	1048	2510	.....Bronchitis and Catarrh..	653	738	987	2378
14	10	10	34	.....Pleurisy.....	76	75	92	243
36	81	23	90	.....Pneumonia.....	..	..	..	..
4	1	4	9	.....Carbuncle.....	..	..	..	..
4425	3867	3378	11670	{ Accidents, and all other Diseases. }	5172	4195	4413	13780
6473	5304	5201	16978	.....TOTAL.....	6580	5477	5952	18009

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN NOVEMBER : Inches. Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	4.063	.....	17						
Royton .....	3.885	.....	18						
Eccles.....	3.299	.....	18						
Old Trafford..	3.255	.....	19						
Penketh .....	2.955	.....	19						
Height of barometer cistern above sea level.....	130 ft.	123 ft.	118ft.	522 ft.	39 ft.	475 ft.			
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.963	30.011	30.002	30.015	29.991	29.992			
Highest.....	30.230	30.224	30.230	29.765	30.326	29.838			
Lowest.....	29.408	29.414	29.376	28.951	29.476	29.000			
Range .....	0.822	0.810	0.854	0.814	0.850	0.838			
Temperature.									
Adopted Mean .....	44.4	43.3	41.2	42.7	44.2	42.3			
Range for Week .....	16.8	22.3	20.0	21.2	20.1	19.6			
Daily Range .....	10.3	14.2	12.9	12.0	10.5	12.1			
Maximum in Shade .....	54.8	55.8	54.7	54.9	53.9	53.7			
Minimum in Shade .....	33.0	33.5	34.7	33.7	33.8	34.1			
Temperature of Dew Point .....	40.7	39.6	39.6	39.7	40.5	38.8			
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.850	0.867	0.836	0.888	0.853	0.878			
Prevailing Winds .....		S,SW	S,SW	S,SW	S,SW	S,SW			
Rain .....		0.916	1.050	1.110	0.586	1.137			
Ozonometer.									
Moffat .....		3.00	0.00	0.00	.....	.....			
Schönbein .....		2.43	0.50	0.70	6.00	0.80			

Des ember 3, 1864.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IV.] WEEK ENDING SATURDAY, DECEMBER 10, 1864. [No. 228

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

The number of new cases of disease which occurred among the patients of the various Charitable Institutions and Poor Law Unions amounted, in the week ending on Saturday, the 10th instant, to 1,594 : in the preceding week it was 1,664, and in the corresponding one of last year 1,832.

Among the zymotic diseases Measles appears to be on the increase, thus the seizures in the course of the week rose from 11 to 30.

Under Small pox we observe a decrease of 7 cases.

Scarlet Fever continues pretty stationary ; in our preceding return we recorded 16 cases, in the present 17.

From Continued Fever there were 60 cases, of which 15 are referred to as examples of Typhus, and 3 of Typhoid Fever. Four of the Typhus cases came under the observation of Dr. Braddon, and were sent to the Hospital. Mr. Thomas Leeds remarks that, between the 27th of October and 30th of November, 5 cases of this disorder occurred in a house in Hampson's Court, Blossom Street, Ancoats ; the house is inhabited by 5 persons, who all sleep in one room, 10 feet 5 inches long, 9 feet 6 inches broad, and 6 feet 4 inches in height, thus allowing only 650 cubic feet to each individual. He further observes that there are, in all, six houses in the court with rooms of similar dimensions.

Under Bronchitis and kindred affections of the chest we observe an increase, the respective numbers in our two last returns being 275 and 310. Dr. Reed remarks that 3 lads were admitted into the Royal Infirmary from Tongue Street, Bradford, suffering from severe gastric disturbance from having partaken of putrid fish.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 218 deaths were registered in the eleven districts from which we are favoured with returns : in the two preceding weeks the respective numbers were 234 and 236.

There were 8 deaths from Small-pox, a greater number than recorded in any of our late reports.

The fatal cases of Continued Fever rose from 8 to 13.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 55. Those from Typhus were more numerous there than those from any of the remaining zymotic diseases.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 44·9°, or 4° above the average of the same week in forty-three years. At the Royal Infirmary it was 46·2°, at Eccles 44·8°, and at Old Trafford 44·5°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SAL

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	..	3	..	..	..	1	1	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles .....	1	..	3	1	..	4	9	..	..	..	..	2	3	2	3
Scarlatina .....	..	..	1	..	1	..	2	..	..	..	..	2	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	2	..	2	..	..	..	..	..	..	..	1
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	..	1	4	..	5	..	..	3	..	..	..	4	3
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Continued Fever.....	3	*4	*1	+5	..	..	13	14	+5	..	..	..	7	4	..
Erysipelas .....	2	..	..	..	..	..	2	..	..	..	1	1	..	..	..
Rheumatism .....	1	3	3	..	3	1	11	20	1	39	3	6	3	1	2
Neuralgic Affections .....	..	..	..	..	..	..	..	..	3	..	..	..	..	..	4
Constitutional Syphilis .....	..	..	..	..	..	..	..	..	1	13	..	1	..	2	2
Phthisis .....	..	..	..	1	..	..	1	1	..	27	3	4	3	..	2
Insanity .....	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	10	7	3	4	5	13	42	23	4	49	4	5	6	3	29
Pleurisy and Pneumœnia....	1	..	..	..	..	1	2	..	1	15	1	5	1	1	1
Skin Diseases.....	1	..	1	..	..	1	3	11	..	14	..	..	..	7	16
Dyspepsia .....	..	..	..	..	5	..	5	..	..	23	..	..	..	3	15
Accidents and diseases not } classified..... }	20	11	23	2	10	17	83	48	36	169	2	6	8	83	19
TOTAL .....	39	25	35	14	30	38	181	121	54	352	14	32	32	112	98

\* Febricula.      † 4 Typhus in one family removed to hospital.      ‡ Typhus.      § 3 Typhoid.

Medical Officers to whom the Associates

- 1) Mr. R. M. MANN.  
2) „ J. BROADBENT,  
3) „ EDWARD MEACHAM  
4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) }  
(10) } Mr. W. H. SUTCLIFFE,  
(11) } „ WILLIAM G. ROGERS,  
(12) } „ THOMAS LEEDS,

(13) Mr. H. RUN  
(14) Dr. WHITE  
(15) Mr. W. GOL  
(16) „ J. TEAL



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 10th day of December, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477.....			646...		508.	2650.....			Area in Statute Acres.		
70,967. ....				68,209. ....			44,850..		21739	24,448 .....			Population in 1861.		
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	** DISEASES.	
	Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.									
17	18	19	20	21	22	23	24	25	26	27	28				
2	..	3	..	..	..	1	15	3	..	..	2	21	5	Small-pox .....	2
..	..	1	..	..	..	..	..	..	..	..	..	2	1	Chicken-pox .....	..
..	..	6	..	2	..	..	..	2	..	1	..	30	11	Measles .....	1
..	..	4	..	..	2	..	..	3	1	..	..	17	47	Scarlatina .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	3	..	..	2	..	..	..	..	..	..	8	10	Whooping-cough ....	..
..	..	1	..	..	..	..	..	..	..	..	..	1	1	Croup .....	..
..	..	3	1	..	..	1	..	2	..	..	1	25	54	Diarrhoea .....	..
..	..	..	..	..	..	..	..	..	..	..	..	1	5	Dysentery .....	..
..	12	17	..	..	..	2	1	..	..	..	14	60	72	Continued Fever ....	3
..	..	1	..	..	..	..	..	..	..	..	2	7	10	Erysipelas .....	..
4	..	8	..	2	2	12	..	..	2	5	2	118	93	Rheumatism .....	..
..	..	2	..	..	..	..	..	..	..	..	..	9	21	Neuralgic Affections ..	..
1	..	4	..	..	..	..	..	..	..	..	3	28	39	Constitutional Syphilis	..
..	..	5	..	..	..	12	1	..	1	4	..	54	64	Phthisis .....	5
..	1	..	..	..	..	..	..	..	..	..	2	8	9	Insanity .....	..
8	1	27	6	4	9	7	10	6	3	16	8	275	332	Bronchitis, Influenza, and Catarrh.....	14
..	..	1	1	..	2	..	1	..	..	1	..	33	28	Pleurisy & Pneumonia.	3
1	7	4	1	1	..	1	1	2	2	..	17	90	85	Skin Disease.....	1
..	..	8	..	..	2	..	1	..	..	5	1	66	79	Dyspepsia .....	..
11	4	96	..	10	3	6	6	31	3	51	60	741	866	Accidents and diseases not classified.....	26
27	15	184	9	19	22	22	26	49	13	83	102	1594	1832	TOTAL.....	56

1 sent to hospital.

2 Modified and 1 Unvaccinated.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) " J. O. BRADBURY,  
(20) " W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) " JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) " J. V. L. WESTMACOT  
(27) " JOHN HOLDEN,  
(28) " J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiplie.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	a1	1	1	a1	..	1	2	..	1	..	..	8	2
Measles .....	..	1	..	1	..	1	..	..	1	3	..	9	4
Whooping-cough.....	..	..	..	..	..	1	..	..	..	..	..	1	8
Scarlatina .....	..	2	1	1	..	4	..	..	..	1	..	10	41
Diarrhoea .....	..	1	..	..	..	..	..	..	1	1	..	3	5
Fever .....	b2	..	c4	..	1	..	d1	e3	..	1	1	13	8
Diseases of the Lungs ..	12	6	5	..	1	6	3	..	3	11	4	51	59
Other causes.....	13	7	23	7	9	7	d15	f11	4	19	8	123	123
TOTAL NO. OF DEATHS.	28	18	34	10	11	20	21	17	10	36	13	218	250
TOTAL NO. OF BIRTHS.	34	45	16	20	21	33	19	24	29	49	27	317	318

a Aged 24 years.    b Typhus.    c 3 Typhus and 1 Typhoid.    d 6 Inquests.    e 1 Typhus and 1 Typhoid.  
f 3 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL.	DISEASE.	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL
4	5	4	13	..... Small-pox.....	35	43	94	172
23	11	21	60	..... Chicken-pox .....	5	8	6	19
64	64	115	243	..... Measles .....	85	64	63	212
42	50	53	145	..... Scarlatina.....	109	73	74	256
2	1	2	5	..... Diphtheria .....	3	..	..	3
55	58	56	169	.... Whooping-cough ....	8	13	23	49
2	3	2	7	..... Croup.....	2	..	4	6
1022	428	443	1893	..... Diarrhoea .....	336	167	117	620
8	5	4	17	..... Dysentery.....	15	12	9	36
..	1	..	1	..... Cholera .....	..	..	..	..
34	18	26	78	..... Erysipelas.....	24	37	39	100
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
12	10	12	34	..... Insanity .....	57	52	26	135
721	741	1048	2510	. Bronchitis and Catarrh..	653	738	987	2378
14	10	10	34	..... Pleurisy .....	76	75	92	243
36	31	23	90	..... Pneumonia .....	..	..	..	..
4	1	4	9	..... Carbuncle .....	..	..	..	..
4425	3867	3378	11670	{ Accidents, and all other Diseases. }	5172	4195	4413	13780
6473	5304	5201	16978	..... TOTAL .....	6580	5477	5952	18009

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN NOVEMBER :				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L.W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
Inches.	Wet Days.								
Castleton Moor	4.063	.....	17						
Royton .....	3.885	.....	18						
Eccles.....	3.299	.....	18						
Old Trafford..	3.255	.....	19						
Penketh ....	2.955	.....	19						
Height of barometer cistern above sea level.....				130 ft.	123 ft	118 ft.	522 ft.	39 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.826	29.831	29.834	29.830	29.830	29.815
Highest.....				30.054	30.048	30.022	29.574	30.142	29.666
Lowest .....				29.464	29.480	29.456	29.009	29.574	29.096
Range .....				0.590	0.568	0.566	0.565	0.568	0.570
Temperature.									
Adopted Mean .....				46.2	44.5	44.8	43.9	44.4	43.4
Range for Week .....				13.6	20.0	20.2	19.2	21.8	17.0
Daily Range .....				5.0	10.2	7.7	7.6	7.8	6.3
Maximum in Shade .....				52.1	53.0	52.7	51.5	53.1	50.2
Minimum in Shade .....				38.5	33.0	32.5	32.3	31.3	33.2
Temperature of Dew Point .....				43.0	43.6	41.0	41.1	41.1	40.6
Hygrometrical condition of the Atmosphere				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.895	0.968	0.864	0.880	0.870	0.896
Prevailing Winds .....					S,SW	S,SE	S,SW	S,SW	SSW,SW
Rain .....					0.941	0.845	1.430	0.836	1.342
Ozonometer.									
Moffat .....					1.86	0.70	0.00	.....	.....
Schonbein .....					1.43	0.00	0.30	0.40	0.01

December 10, 1864.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

L. IV.] WEEK ENDING SATURDAY, DECEMBER 17, 1864. [No. 229.]

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 17th instant, 1,426 new cases of disease were observed by the medical officers connected with the various public Charitable Institutions and Poor Law Unions: in the two preceding weeks the respective numbers were 1,664 and 1,594, and in the corresponding week of last year 1,659. Thus there were about 200 fewer cases of disease than are usually observed at this time of the year.

On turning to the zymotic diseases we find the Small-pox return still very unsatisfactory. In the preceding week there were 21 cases,—last week 26. Moreover the disorder does not appear to be confined to any particular district or locality; thus, there were 7 cases in Manchester, 9 in Salford, 6 in Hulme, and 3 in Chorlton. It is very important that more attention should be directed to vaccination; statistics abundantly prove that, where vaccination is efficiently performed and occasionally repeated, complete immunity may be obtained from this loathsome disorder.

Of 70 cases of Continued Fever 16 proved examples of Typhus and 8 of Typhoid Fever. Five of the Typhus cases came under the care of Mr. Broadbent in the St. Andrew's District, and were ordered to be removed to the Hospital.

The seizures from Bronchitis owing to the continued mildness of the season, proved less numerous than in the corresponding week of last year; thus the respective numbers were 244 and 365.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week the deaths registered in the eleven districts from which we obtain our returns amounted to 299: in the two preceding weeks the respective numbers were 236 and 218. The mortality, however, was not so excessive as these figures might lead us to suppose, as no fewer than 43 of the deaths were those of persons on whom an inquest had been held. These inquest cases are generally only returned at the end of the quarter, though the deaths probably occurred in tolerably equal proportions in the course of the thirteen weeks of which the quarter is made up.

The deaths from the zymotic diseases compare favourably with those registered in our preceding return; all, with the exception of Whooping Cough, proving less numerous than at that time.

In London, according to the last return of the Registrar General, the deaths although up to did not exceed the average for the season.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 37·3°, at the Royal Infirmary it was 41·8°, at Old Trafford 40·8°, and at Eccles 40·4°. Thus the weather here was very considerably warmer than in the neighbourhood of London.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.

N.B. In our last return, in speaking of a house in Hampson's Court, Blossom Street, in which 5 cases of Typhus have occurred, we observed that only 650 cubic feet were allowed to each individual. We ought to have stated not "to each," but to all the 5 persons who occupy the room.



MANCHESTER AND SA

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment

MANCHESTER.														
Area in Statute Acres .....	Manchester Township 1,645 .....													
Population in 1861 .....	" " 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.						
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN'S St. Mary's Hospital.
									In-patients.	Out-patients.	District I.	District II.	District III.	
	1	2	3	4	5	6		7	8	9	10	11	12	13
Small-pox .....	..	..	1	1	..	..	2	1	2	..	1	1	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	..	1	2	2	..	6	..	..	..	..	2	2	1
Scarlatina .....	..	..	1	..	..	..	1	..	..	..	..	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	4	..	4	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	1	2	..	4	2	..	5	1	..	..	5
Dysentery .....	..	..	..	..	..	2	2	..	..	..	..	..	..	..
Continued Fever.....	2	*6	+4	2	1	3	18	19	..	..	..	‡1	§3	6
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	1	..	..	..
Rheumatism .....	4	5	1	2	3	1	16	15	3	35	4	2	4	2
Neuralgic Affections .....	..	2	..	..	..	..	2	..	3	7	..	..	..	..
Constitutional Syphilis .....	1	..	..	..	..	..	1	3	..	13	..	..	..	1
Phthisis .....	..	..	..	1	2	..	3	5	..	28	3	4	1	..
Insanity .....	..	..	1	..	..	..	1	1	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	7	9	4	3	7	10	40	32	..	36	4	3	1	11
Pleurisy and Pneumonia....	1	..	..	..	..	1	2	1	..	3	1	..	1	..
Skin Diseases.....	1	..	1	..	..	..	2	13	..	9	..	..	..	6
Dyspepsia .....	..	..	1	1	2	..	4	..	1	18	..	2	..	1
Accidents and diseases not classified.....	20	8	21	11	4	11	75	41	31	190	3	9	14	43
TOTAL.....	37	31	36	24	27	28	183	134	40	344	18	25	26	76

\* 5 Typhus 2 removed to hospital.      † 2 Typhoid.      ‡ Typhus.      § 1 Typhus and 2 Typhoid

Medical Officers to whom the Association are indebted for their services during the year 1861.

1) Mr. R. M. MANN.	(5) Dr. JOHN MEDD,	(9) Mr. W. H. SUTCLIFFE,	(13) Mr. H. RUSS,
2) „ J. BROADBENT,	(6) „ LEDWARD,	(10) „ WILLIAM G. ROGERS,	(14) Dr. WHITE,
3) „ EDWARD MEACHAM	(7) Mr. A. PHILIPPS,	(11) „ THOMAS LEEDS,	(15) Mr. W. GOULD,
4) Dr. BRADDON,	(8) Dr. GEORGE REED,	(12) „	(16) „ J. TEA



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 17th day of December, 1864.

SALFORD.				HULME.			CHORLTON.		ARD-WICK	PENDLETON AND PENDLEBURY.					
1,329				477			646		508	2650				Area in Statute Acres.	
70,967				68,209			44,850		21,739	24,448				Population in 1861.	
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.		
17	18	19	20	21	22	23	24	25	26	27	28				
1	5	3	..	1	2	3	1	1	1	..	1	26	6	Small-pox .....	1
..	..	..	..	..	..	1	..	..	..	..	..	1	1	Chicken-pox .....	..
..	..	..	..	1	..	..	..	2	..	..	1	17	10	Measles .....	..
..	..	2	..	..	..	..	..	..	1	..	..	5	45	Scarlatina .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	5	15	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..
2	..	2	2	..	..	1	..	1	..	..	..	32	48	Diarrhoea .....	..
..	..	..	..	..	..	..	..	..	..	..	..	3	5	Dysentery .....	..
†2	‡3	†6	..	†3	..	5	..	..	1	†1	†2	70	58	Continued Fever ....	5
..	..	2	..	..	..	2	..	..	..	..	..	6	30	Erysipelas .....	..
..	..	4	..	3	..	1	..	4	..	4	2	101	87	Rheumatism .....	..
1	..	2	..	..	..	..	..	1	..	..	1	19	28	Neuralgic Affections ..	..
..	..	5	..	..	..	1	..	..	..	..	6	31	42	Constitutional Syphilis	1
1	..	6	..	..	..	..	2	..	..	2	4	61	63	Phthisis .....	4
..	3	..	..	..	..	..	..	..	..	..	..	5	10	Insanity .....	1
2	1	29	6	7	9	3	4	10	2	14	6	244	365	Bronchitis, Influenza, and Catarrh.....	7
..	..	3	..	..	..	1	..	..	..	..	1	13	22	Pleurisy & Pneumonia.	1
3	6	5	1	4	..	..	2	1	2	..	7	69	71	Skin Disease.....	..
..	..	4	..	..	3	..	1	..	..	3	3	56	74	Dyspepsia .....	..
8	6	82	2	2	7	..	7	32	3	35	55	662	671	Accidents and diseases not classified.....	29
20	24	155	11	21	21	18	17	52	10	59	89	1426	1659	TOTAL.....	49

|| 1 Typhus.

¶ 1 Typhus, removed to hospital; 1 Typhoid and 1 Febricula.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J. V. L. WESTMACOT  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Lippie.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	2	..	..	..	3	..	..	..	..	..	1	6	2
Measles .....	2	2	..	1	1	..	..	1	..	1	2	9	3
Whooping-cough.....	..	..	..	..	..	5	..	..	..	2	..	6	9
Scarlatina .....	..	2	..	..	..	3	1	..	..	1	..	8	35
Diarrhœa .....	..	..	1	..	..	..	..	..	..	..	..	2	5
Fever .....	..	..	62	1	..	1	61	..	2	..	61	8	5
Diseases of the Lungs ..	13	10	8	5	1	13	5	..	2	7	2	66	66
Other causes.....	23	a23	c50	12	15	d8	e23	9	5	19	7	194	148
TOTAL NO. OF DEATHS.	40	37	61	19	20	30	30	10	9	30	13	299	273
TOTAL NO. OF BIRTHS.	46	37	10	16	17	31	64	32	32	55	26	366	322

a 18 Inquests.      b Typhus.      c 22 Inquests.      d 1 Inquest.      e 2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL.	DISEASE.	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL
4	5	4	13	..... Small-pox .....	35	43	94	172
28	11	21	60	..... Chicken-pox .....	5	8	6	19
64	64	115	243	..... Measles .....	85	64	63	212
42	50	53	145	..... Scarlatina .....	109	73	74	256
2	1	2	5	..... Diphtheria .....	3	..	..	3
55	58	56	169	.... Whooping-cough ....	8	13	28	49
2	3	2	7	..... Croup .....	2	..	4	6
1022	428	443	1893	..... Diarrhœa .....	336	167	117	620
8	5	4	17	..... Dysentery .....	15	12	9	36
..	1	..	1	..... Cholera .....	..	..	..	..
34	18	26	78	..... Erysipelas .....	24	37	39	100
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
12	10	12	34	..... Insanity .....	57	52	26	135
721	741	1048	2510	. Bronchitis and Catarrh..	653	738	987	2378
14	10	10	34	..... Pleurisy .....	76	75	92	243
36	31	23	90	..... Pneumonia .....	..	..	..	..
4	1	4	9	..... Carbuncle .....	..	..	..	..
4425	3867	3378	11670	{ Accidents, and all other Diseases. }	5172	4195	4413	13780
6473	5304	5201	16978	..... TOTAL .....	6580	5477	5952	18009

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD

FALL OF RAIN IN NOVEMBER :			Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. Reynolds Esq.	Castleton Moor, Rev. J. C. BATES.
	Inches.	Wet Days.						
Castleton Moor	4.063	..... 17						
Royton .....	3.885	..... 18						
Eccles.....	3.299	..... 18						
Old Trafford..	3.255	..... 19						
Penketh ...	2.955	..... 19						
Height of barometer at station above sea level.....			130 ft.	123 ft.	118 ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....			29.710	29.732	29.734	29.729	29.715	29.708
Highest.....			29.913	29.911	29.892	29.453	30.024	29.500
Lowest .....			29.353	29.362	29.340	28.900	29.450	29.000
Range .....			0.560	0.549	0.552	0.553	0.574	0.500
<b>Temperature.</b>			41.8	40.8	40.4	39.6	39.7	38.9
Adopted Mean .....			16.0	18.8	18.4	17.5	19.7	16.4
Range for Week .....			5.7	6.3	5.1	5.5	3.9	5.1
Daily Range .....			50.0	50.8	50.4	49.5	50.3	48.0
Maximum in Shade .....			34.0	32.0	32.0	32.0	30.6	31.6
Minimum in Shade .....			38.2	37.7	34.3	34.8	35.5	34.4
Temperature of Dew Point .....								
<b>Hygrometrical condition of the Atmosphere</b>			GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....			0.878	0.858	0.792	0.832	0.856	0.847
Prevailing Winds .....			SE, NE					
Rain .....			0.489 0.520 0.670 0.365 0.541					
<b>Ozonometer.</b>								
Moffat .....			1.14 0.90 0.00 .....					
Schonbein .....			1.00 0.00 0.90 3.90 1.50					

December 17, 1864.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, DECEMBER 24, 1864. [No. 230.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 24th instant, 1,246 new cases of disease were observed in connection with the various public Charitable Institutions and Poor Law Unions: in the two preceding weeks the respective numbers were 1,594 and 1,426, and in the corresponding week of last year 1,331. Thus the present disease return may be deemed satisfactory.

The zymotic diseases, generally, proved less prevalent than in the two preceding weeks: thus, a fortnight ago, there were 30 cases of Measles, last week only 15. The Scarlet Fever cases, at that time, reached 17; in our present return they fell to 4.

Of 54 cases of Continued Fever 12 proved examples of Typhus and 3 of Typhoid Fever. Three of the Typhus cases were patients of Mr. Mann, and occurred in the St. Peter's District; two more of the Royal Infirmary; and two of the Salford Workhouse.

There were 19 cases of Small-pox, or 7 fewer than in the preceding week.

The number of new cases of Bronchitis and kindred affections of the chest was 254, being 3 less than in the preceding return; a fortnight ago they proved considerably more numerous.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 242 deaths were registered in the eleven districts from which we receive our returns: in the corresponding week of last year there were 328.

There were 5 deaths from Small-pox; one of them occurred in St. George's District, and the registrar informs us that the patient had never been vaccinated.

Ten persons died from Scarlet Fever; in the corresponding week of last year the deaths from this cause amounted to 42.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 133. Typhus there proved more fatal than any other zymotic disease. No fewer than 84 deaths are ascribed to this cause.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was  $34.5^{\circ}$ , at Old Trafford it was  $33.6^{\circ}$ , at Eccles  $33.8^{\circ}$ , and at the Royal Infirmary  $35.3^{\circ}$ . At Greenwich the lowest night temperature was  $17.3^{\circ}$ , at the Royal Infirmary the thermometer never fell below  $23.5$ ; but, at Castleton Moor, one of the outlying stations from which we are favoured with returns, it was as low as  $12^{\circ}$ .

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS

*New Cases of Disease coming under Treatment*

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN	
								Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	2	..	1	..	..	..	3	..	2	..	..	..	3	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	..	3	1	1	..	6	..	..	..	..	4	..	..	2
Scarlatina .....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	3	1	4	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	..	..	..	2	..	2	..	..	..	..	..	..	..	6
Dysentery .....	..	1	..	..	..	..	1	1	..	..	..	..	..	1	..
Continued Fever .....	*7	†1	‡2	§1	1	‖4	16	10	‡5	..	1	2	2	4	..
Erysipelas .....	..	..	..	..	..	..	..	2	..	..	..	1	..	..	..
Rheumatism .....	2	3	2	1	5	..	13	11	2	39	3	1	6	..	1
Neuralgic Affections .....	..	..	..	..	2	..	2	..	2	5	..	..	..	..	3
Constitutional Syphilis .....	1	..	..	..	..	..	1	4	..	12	..	..	..	1	1
Phthisis .....	..	1	2	..	3	1	7	5	2	30	4	3	1	1	2
Insanity .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh .....	3	11	3	1	9	8	35	26	1	39	4	3	5	1	17
Pleurisy and Pneumonia .....	2	..	..	..	1	..	3	..	..	6	1	1	2	..	2
Skin Diseases .....	..	..	1	..	..	..	1	11	..	14	..	..	1	6	8
Dyspepsia .....	..	..	..	..	3	..	3	..	1	23	..	..	..	1	4
Accidents and diseases not classified .....	24	7	11	7	2	14	65	32	43	162	2	5	11	31	15
TOTAL .....	42	24	25	11	32	28	162	103	58	330	15	21	31	46	61

\* 3 Typhus.

† Typhus, removed to hospital.

‡ 1 Febricula.

§ 1 Maculated Typhus, removed to Hospital.

*Medical Officers to whom the Associates*

- 1) Mr. R. M. MANN.
- 2) „ J. BROADBENT,
- 3) „ EDWARD MEACHAM
- 4) Dr. BRADDON,

- (5) Dr. JOHN MEDD,
- (6) „ LEDWARD,
- (7) Mr. A. PHILIPPS,
- (8) Dr. GEORGE REED,

- (9) Mr. W. H. SUTCLIFFE,
- (10) „ WILLIAM G. ROGERS,
- (11) „ THOMAS LEEDS,
- (12)

- (13) Mr. H. RUNC
- (14) Dr. WHITEH
- (15) Mr. W. GOLL
- (16) „ J. TEALI



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 24th day of December, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						
1,329 .....				477 .....			646 .....		508.	2650 .....				Area in Statute Acres.		
70,967. ....				68,209. ....			44,850 .....		21739	24,448 .....				Population in 1861.		
LAW TRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anecats Dispensary.	Chorlton Union Work-house.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.	
17	18	19	20	21	22	23	24	25	26	27	28					
..	2	1	..	++2	2	..	..	..	1	..	1	19	6	Small-pox .....	1	
..	..	..	..	..	..	..	..	..	1	..	1	2	1	Chicken-pox .....	..	
..	..	..	..	..	..	..	..	1	..	..	2	15	6	Measles .....	2	
..	..	3	..	..	..	..	..	..	..	..	..	4	44	Scarlatina .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	4	16	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
..	..	2	2	..	..	..	..	..	2	..	1	17	32	Diarrhoea .....	1	
..	..	..	..	..	..	..	1	..	..	..	..	4	9	Dysentery .....	..	
..	**2	4	..	..	..	6	..	..	2	..	..	54	54	Continued Fever ....	1	
..	..	..	..	..	..	1	..	1	..	..	..	5	21	Erysipelas .....	..	
1	..	6	..	2	..	2	..	6	2	3	..	101	81	Rheumatism .....	..	
1	..	3	..	..	..	..	..	..	..	..	..	16	19	Neuralgic Affections ..	..	
1	1	2	..	..	..	..	..	..	..	..	4	29	44	Constitutional Syphilis	..	
..	..	8	..	..	..	1	3	1	1	1	..	70	61	Phthisis .....	6	
..	4	..	..	..	..	..	..	..	..	..	3	8	7	Insanity .....	..	
6	..	26	5	3	7	3	8	16	2	10	6	234	258	Bronchitis, Influenza, and Catarrh.....	14	
2	..	1	..	..	..	..	..	1	..	1	..	20	17	Pleurisy & Pneumonia.	3	
..	4	7	..	1	..	..	1	3	..	..	12	70	81	Skin Disease.....	..	
2	..	7	1	..	3	..	1	..	..	3	..	49	55	Dyspepsia .....	..	
5	4	26	..	2	1	2	5	28	3	37	41	525	517	Accidents and diseases not classified.....	22	
18	17	96	8	10	13	15	19	57	14	55	71	1246	1331	TOTAL.....	50	

phus and 1 Febricula. ¶ 2 Typhus and 3 Typhoid. \*\* Typhus. ++ 1 Confluent removed to Hospital ; and 1 Modified.

debted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
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(26) „ J. V. L. WESTMACOT  
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	a1	1	..	..	..	..	..	1	1	..	5	..
Measles .....	1	3	..	..	1	..	..	..	1	..	..	6	2
Whooping-cough.....	..	1	1	..	..	2	..	..	..	..	1	4	13
Scarlatina .....	1	3	..	..	..	1	2	..	1	1	1	10	42
Diarrhœa .....	..	1	..	..	..	1	..	..	..	..	..	3	8
Fever .....	1	..	5	1	..	2	a1	..	..	1	..	11	11
Diseases of the Lungs ..	8	7	7	5	..	7	..	..	9	16	1	60	84
Other causes.....	16	16	22	13	9	b14	d10	d10	8	17	e8	143	168
TOTAL NO. OF DEATHS.	28	32	37	19	10	27	13	10	20	36	10	242	328
TOTAL NO. OF BIRTHS.	36	32	21	14	16	37	55	18	29	74	24	356	274

a Not Vaccinated.      b 1 Inquest.      c Typhus.      d 2 Croup.      e 7 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

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4	5	4	13	..... Small-pox.....	35	43	94	172
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8	5	4	17	..... Dysentery.....	15	12	9	36
..	1	..	1	..... Cholera .....	..	..	..	..
34	18	26	78	..... Erysipelas.....	24	37	39	100
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
12	10	12	34	..... Insanity .....	57	52	26	135
721	741	1048	2510	.. Bronchitis and Catarrh..	653	738	987	2378
14	10	10	34	..... Pleurisy .....	76	75	92	243
36	31	23	90	..... Pneumonia .....	..	..	..	..
4	1	4	9	..... Carbuncle.....	..	..	..	..
4425	3867	3378	11670	{ Accidents, and all other Diseases. }	5172	4195	4413	13780
6473	5304	5201	16978	..... TOTAL .....	6580	5477	5952	18009

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN NOVEMBER : Inches.      Wet Days.				Royal Infirmary, Dr. REED.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. Reynolds Esq	Castleton Moor, Rev. J. C. BATES.
Castleton Moor	4.063	.....	17						
Royton .....	3.885	.....	18						
Eccles.....	3.299	.....	18						
Old Trafford..	3.255	.....	19						
Penketh .....	2.955	.....	19						
Height of barometer cistern above sea level.....				130 ft.	123 ft	118ft.	522 ft.	39 ft.	475 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.166	30.183	30.179	30.164	30.174	30.166
Highest.....				30.518	30.540	30.512	30.068	30.644	30.154
Lowest .....				29.724	29.700	29.710	29.250	29.813	29.224
Range .....				0.794	0.840	0.802	0.838	0.831	0.930
Temperature.									
Adopted Mean .....				35.3	33.6	33.8	32.8	32.1	31.7
Range for Week .....				18.4	24.4	22.5	20.5	24.7	27.0
Daily Range.....				8.1	11.2	8.4	8.6	8.8	8.4
Maximum in Shade .....				41.9	43.4	41.2	39.5	41.6	39.0
Minimum in Shade .....				23.5	19.0	18.7	19.0	16.9	12.0
Temperature of Dew Point .....				30.8	31.9	29.8	30.4	28.0	28.0
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.847	0.934	0.802	0.912	0.840	0.918
Prevailing Winds .....					SE, NE	NE	E, NE	E, SE	E, SE
Rain .....					0.050	0.121	0.140	0.361	0.142
Ozonometer.									
Moffat .....					0.00	0.50	0.00	.....	0.50
Schonbein .....					0.00	0.00	0.80	1.64	0.80

December 24, 1864.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

OL. IV.] WEEK ENDING SATURDAY, DECEMBER 31, 1864. [No. 231.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week terminating on Saturday, the 31st instant, 1,295 new cases of disease were observed by the medical officers connected with our Charitable Institutions and Poor Law Unions: in the corresponding week of last year there were 1,474.

The zymotic diseases, with the exception of Small-pox, all prevailed to a greater extent than in the preceding week. Thus the Scarlet Fever cases rose from 4 to 17; 5 of the 17 occurred among the patients of the Chorlton Dispensary, and 4 more in two of the Hulme Poor Law Districts.

Under Measles, also, we find an increase. The disorder appears to be scattered over various parts of Manchester, Chorlton, Hulme, and Ardwick. No case however, either in this or our preceding return, is reported from Salford.

There were 15 cases of Small-pox. Two occurred among the patients of Mr. Mann, and one among those of Dr. Braddon, which were removed to the Workhouse.

Of 57 cases of Continued Fever 4 proved examples of Typhus and 6 of Typhoid Fever. Three of the cases of Typhus were met with in District III. of the Royal Infirmary. In St. Philip's District, Hulme, there were no fewer than 10 cases of Continued Fever, of which 4 are referred to as examples of Typhoid; all the latter were sent to the Workhouse.

During the last three weeks the variation in the amount of Bronchitis and kindred affections of the chest, including Pneumonia and Pleurisy, was very small, the respective number of cases in our three last returns being 257, 254, and 251.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 355 deaths were registered in the eleven districts from which we obtain weekly returns. Of this number, however, 98 were those of persons on whom an inquest had been held; the latter did not all occur during the week but were distributed over the thirteen weeks of which the quarter was made up.

Two of the zymotic diseases, Measles and Fever, proved especially fatal, the former contributing 12 and the latter 15 deaths to the return.

In our disease columns we do not observe any increase under disorders connected with the chest. Nevertheless there is a marked increase in respect to the deaths from this cause, the respective numbers for the three last weeks being 66, 60, and 82.

In London, according to the last return of the Registrar General, the deaths exceeded the average by 177. Among the zymotic diseases Typhus Fever predominated.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 35.6°, at the Royal Infirmary it was 35.9°, at Eccles 34.2°, and at Old Trafford 33.4°. At Greenwich the thermometer did not fall below 27.8°; at Royton, one of our stations, it descended to 21°.

JOHN ED. MORGAN, M.B., M.A., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



# MANCHESTER AND SALT

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....		Manchester Township 1,645 .....													
Population in 1861 .....		" " 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	*3	1	..	§1	..	..	5	..	..	..	2	..	2	..	..
Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	2	1	2	..	2	3	10	..	..	..	..	..	..	..	2
Scarlatina .....	..	..	2	..	..	..	2	..	..	..	..	3	..	..	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	3	..	3	..	..	..	..	..	..	..	3
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	..	..	5	..	5	..	..	..	..	..	..	5	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	†1	‡1	..	..	..	2	4	16	..	..	..	1	‡5	5	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism .....	1	1	2	1	..	..	5	11	..	27	3	..	5	..	1
Neuralgic Affections.....	..	..	..	..	..	..	..	..	2	..	..	..	1	..	2
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	16	..	..	..	..	..
Phthisis .....	..	..	..	2	3	1	6	7	1	33	2	4	2	3	1
Insanity .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	8	8	5	8	9	18	56	13	..	39	6	3	5	4	4
Pleurisy and Pneumonia....	1	..	1	..	2	..	4	2	..	5	3	..	3	..	2
Skin Diseases.....	1	..	..	..	3	..	4	15	..	10	..	..	..	1	10
Dyspepsia .....	..	..	..	..	5	..	5	..	3	45	..	1	..	1	6
Accidents and diseases not classified.....	31	10	22	6	11	17	97	39	31	160	5	7	7	20	3
TOTAL .....	48	22	34	18	43	41	206	111	37	335	21	19	30	39	35

\* 1 Not vaccinated, 2 removed to Hospital.

† Febricula.

‡ Typhus, removed to Hospital.

Medical Officers to whom the Associa

1) Mr. R. M. MANN.  
2) „ J. BROADBENT,  
3) „ EDWARD MEACHAM  
4) Dr. BRADDON,

(5) Dr. JOHN MEDD,  
(6) „ LEDWARD,  
(7) Mr. A. PHILIPPS,  
(8) Dr. GEORGE REED,

(9) } Mr. W. H. SUTCLIFFE,  
(10) } „ WILLIAM G. ROGERS,  
(11) } „ THOMAS LEEDS,  
(12) }

(13) Mr. H. RUP  
(14) Dr. WHITE  
(15) Mr. W. GOI  
(16) „ J. TEA



# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 31st day of December, 1864.

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
1,329 .....				477.....			646...		508.	2650.....				Area in Statute Acres.		
70,967. ....				68,209. ...			44,850..		21739	24,448 .....				Population in 1861.		
LAW RICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											DISEASES.	
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
17	18	19	20	21	22	23	24	25	26	27	28					
1	..	2	..	..	..	..	..	2	..	..	..	15	11	Small-pox .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox .....	..	
..	..	..	..	..	2	2	..	2	1	1	2	22	4	Measles .....	..	
..	..	1	..	2	..	2	1	5	..	..	..	17	39	Scarlatina .....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	6	21	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	2	2	..	1	..	1	1	..	..	1	21	32	Diarrhoea .....	..	
..	..	2	..	..	..	1	1	..	..	..	..	4	3	Dysentery .....	..	
3	..	4	..	1	..	10	2	..	1	..	3	57	55	Continued Fever ....	3	
..	..	1	..	..	..	1	..	..	..	..	2	4	6	Erysipelas .....	..	
1	2	6	1	..	..	1	1	1	..	2	4	73	72	Rheumatism .....	..	
..	..	2	..	..	..	..	..	..	..	..	..	7	10	Neuralgic Affections ..	1	
..	..	4	..	..	..	..	..	..	..	..	5	33	34	Constitutional Syphilis	..	
1	..	8	..	..	..	..	1	..	2	2	2	75	53	Phthisis .....	9	
1	..	..	..	..	..	..	..	..	..	..	1	4	14	Insanity .....	..	
6	2	23	5	2	6	3	9	7	5	12	7	231	305	Bronchitis, Influenza, and Catarrh.....	12	
..	..	..	..	1	..	..	..	..	..	..	..	20	17	Pleurisy & Pneumonia.	1	
..	2	8	..	1	..	1	2	3	2	1	15	75	66	Skin Disease.....	..	
1	..	10	1	..	..	..	..	1	..	4	..	78	67	Dyspepsia .....	..	
8	3	32	..	7	4	2	12	20	2	31	50	554	665	Accidents and diseases not classified.....	26	
22	9	105	9	14	13	23	30	42	13	53	92	1295	1474	TOTAL.....	55	

‡ Removed to Hospital.

|| 4 Typhoid, removed to Hospital.

¶ 3 Typhus and 2 Typhoid.

indebted for the annexed Returns.

(17) Dr. SAMUEL BOOTH,  
(18) Mr. M. O. LARMUTH,  
(19) „ J. O. BRADBURY,  
(20) „ W. B. STOTT,

(21) Mr. JOHN SMITH,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. JOHN RAYNER,  
(26) „ J.V.L. WESTMACOT  
(27) „ JOHN HOLDEN,  
(28) „ J. WATSON.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	..	..	..	..	..	..	3	..	..	..	1	4	1
Measles .....	2	5	..	..	..	..	..	4	..	1	..	12	1
Whooping-cough.....	..	..	..	..	..	1	..	..	..	..	..	1	9
Scarlatina .....	..	1	1	..	..	1	1	..	1	..	..	5	32
Diarrhoea .....	..	..	..	..	..	2	1	..	1	1	1	5	3
Fever .....	1	2	4	2	1	2	1	..	1	1	..	15	8
Diseases of the Lungs ..	17	8	7	10	1	8	4	..	10	13	4	82	80
Other causes.....	a23	b23	c46	e11	f20	g11	i21	..	j26	k28	8	231	256
TOTAL NO. OF DEATHS.	43	39	58	23	22	25	31	18	38	44	14	355	290
TOTAL NO. OF BIRTHS.	39	44	17	13	13	34	8	14	26	78	22	303	351

a 16 Inquests.    b 6 Inquests.    c 24 Inquests.    d 1 Typhus and 1 Typhoid.    e 7 Inquests.    f 13 Inquests.  
g 5 Inquests.    h Typhoid.    i 4 Inquests.    j 15 Inquests.    k 12 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in  
St. Marylebone, LONDON. Medical  
Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public  
Institutions in MANCHESTER  
and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL.	DISEASE.	5 Weeks ending 1st Oct.	4 Weeks ending 29th Oct.	4 Weeks ending 26th Nov.	TOTAL
4	5	4	13	..... Small-pox.....	35	43	94	172
28	11	21	60	..... Chicken-pox .....	5	8	6	19
64	64	115	243	..... Measles .....	85	64	63	212
42	50	53	145	..... Scarlatina.....	109	73	74	256
2	1	2	5	..... Diphtheria.....	3	..	..	3
55	58	56	169	.... Whooping-cough ....	8	13	28	49
2	3	2	7	..... Croup.....	2	..	4	6
1022	428	443	1893	..... Diarrhoea .....	336	167	117	620
8	5	4	17	..... Dysentery.....	15	12	9	36
..	1	..	1	..... Cholera .....	..	..	..	..
34	18	26	78	..... Erysipelas.....	24	37	39	100
..	..	..	..	.... Puerperal Fever ....	..	..	..	..
12	10	12	34	..... Insanity .....	57	52	26	135
721	741	1048	2510	. Bronchitis and Catarrh..	653	738	937	2378
14	10	10	34	..... Pleurisy .....	76	75	92	243
36	31	23	90	..... Pneumonia .....	..	..	..	..
4	1	4	9	..... Carbuncle.....	..	..	..	..
4425	3867	3378	11670	{ Accidents, and all other Diseases. }	5172	4195	4413	13780
6473	5304	5201	16978	..... TOTAL .....	6580	5477	5952	18009

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER :				Royal Infirmary, Dr. REED.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. REYNOLDS Esq.	Castleton Moor, Rev. J. C. BATES.
		Inches.	Wet Days.						
Royton .....		2.860	17						
Castleton Moor .....		2.618	13						
Eccles.....		2.006	17						
Old Trafford..		1.970	17						
Penketh .....		1.814	17						
Height of barometer cistern above sea level.....				130 ft.	123 ft.	118 ft.	522 ft.	39 ft.	475 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.216	30.212	30.215	30.211	30.207	30.193
Highest.....				30.384	30.412	30.374	29.917	30.514	29.994
Lowest .....				29.806	29.756	29.720	29.263	29.853	29.300
Range .....				0.578	0.656	0.654	0.654	0.656	0.604
<b>Temperature.</b>				35.9	33.4	34.2	33.4	34.7	33.0
Adopted Mean .....				21.9	22.0	22.0	22.6	22.2	22.0
Range for Week .....				9.5	8.4	9.6	11.9	7.7	8.3
Daily Range .....				46.6	44.0	45.0	43.6	45.2	43.0
Maximum in Shade .....				24.7	22.0	23.0	21.0	23.0	21.0
Minimum in Shade .....				34.0	31.4	32.3	31.6	32.0	30.3
Temperature of Dew Point .....									
<b>Hygrometrical condition of the Atmosphere</b>				GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....				0.944	0.916	0.927	0.932	0.900	0.900
Prevailing Winds .....				SE,S	SE,SW	SE,SW	SE,SW	SE,SW	SE,SW
Rain .....				0.096	0.102	0.100	0.107	0.085	0.085
<b>Ozonometer.</b>									
Moffat .....				0.43	0.28	0.00	0.00	0.00	0.00
Schonbein .....				0.71	0.00	0.00	1.00	0.00	0.00

December 31, 1864.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.